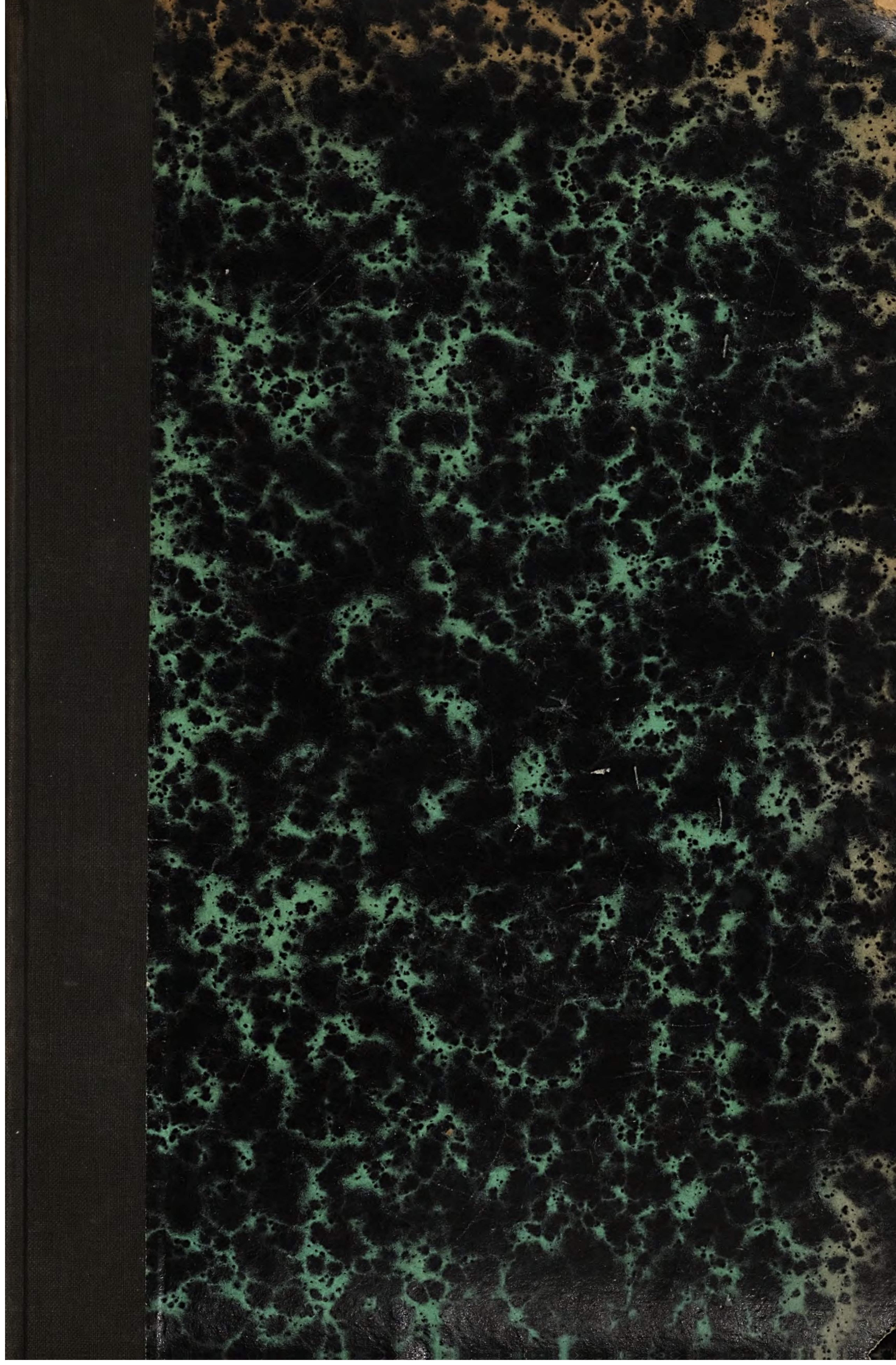




Graph.

Rockwell

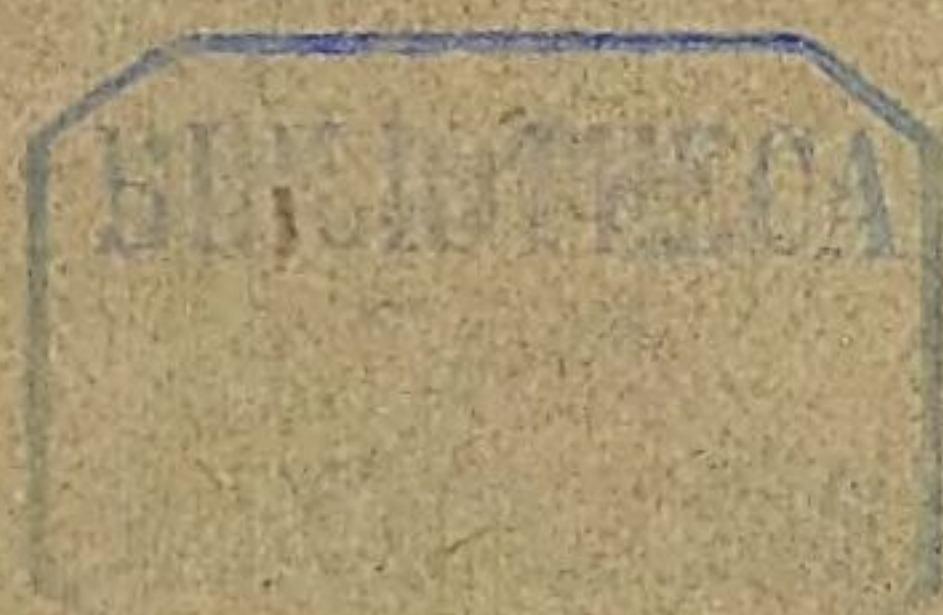
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[Whole Number 192]

BUREAU OF EDUCATION.
CIRCULAR OF INFORMATION NO. 1, 1893.

SHORTHAND INSTRUCTION AND PRACTICE.

BY

JULIUS ENSIGN ROCKWELL,

AUTHOR OF NO. 2, 1884, "THE TEACHING, PRACTICE, AND
LITERATURE OF SHORTHAND."

WASHINGTON:

GOVERNMENT PRINTING OFFICE.

1893.



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ACKNOWLEDGMENTS.

Hearty thanks are returned to all who have contributed information for this report—to those who have furnished statistics of schools and classes, the names of teachers, data regarding the use of shorthand in foreign countries, in courts, etc. Especial assistance has been rendered by Mr. David Hutcheson, of the Library of Congress, in reference to authors of publications on the art which have been copyrighted.

J. E. R.

AUGUST 28, 1891.

DEPARTMENT OF THE INTERIOR,
BUREAU OF EDUCATION,
Washington, D. C., November 18, 1892.

SIR: In 1884 this Bureau, endeavoring to meet the demand for information on the general lines of educational work, published a circular of information on the subject of the teaching, practice, and literature of shorthand. Mr. Julius Ensign Rockwell, at one time stenographer in this Office, undertook the work and completed it in a satisfactory manner. Of that circular an edition of 20,000 was soon distributed, and was followed by another of equal size, which was exhausted in a few years, and for the past three years I may say that there have been more frequent calls for this circular than for any other published by the Bureau of Education. I have accordingly procured from its author a revision of the work. Much of the former matter is omitted and some new material inserted. One important addition is a digest of legal decisions in regard to shorthand writers, while the bibliography of shorthand works in the English language has been omitted in the second.

It will be seen in the chapter giving the statistics of instruction in shorthand in the United States (pp. 40-141) that the system mainly followed is that of Isaac Pitman. Few inventors within the last two hundred years have been so happy as he in discovering devices that have proved useful in practice and at the same time called forth universal admiration for their theoretic perfection. Although the art of stenography is very old, dating from the first epoch of legal advocates, yet the early systems of representing words were full of capricious abbreviations, and the successful stenographer was required to carry in his memory a long list of arbitrary word signs which were formed on an irrational basis. Isaac Pitman made a scientific study of phonology and based his alphabet on its principles, and to indicate this called his system phonography. The characters used by him fall into groups expressing by their resemblance in shape and position the relations of the elementary sounds for which they stand. On this basis the briefest systems of reporting style have grown up. Many reporters, masters in the use of this style, have been able to write as many as two hundred words a minute and read their notes with facility.

It will be seen by the chronological lists of English and American authors of text-books (pp. 14-19) that very many systems have been published that are but slight modifications upon the system of phonography, so called from its chief feature, which is the attempt to rep-

resent the sounds themselves without reference to the letters of the alphabet used in printing.

The venerable author of this system, Isaac Pitman, still living and active in his old age, has published as many as ten different editions of his system, each one containing modifications and incorporating the results of experience in the form of new devices discovered by writers who use the system.

I quote from the letter of transmission accompanying the first edition of this circular, from the pen of Gen. John Eaton, then Commissioner, the following paragraphs, stating the occasion for the work and making due recognition of the services of Mr. Rockwell in its preparation.

This Office, in endeavoring to meet the enormous demand for information on the general lines of educational work, has been able only occasionally and to a limited extent to follow up various specialties of great importance in themselves and having vital bearings upon our progress in education. Among the specialties not considered as I have desired in the past has been instruction in shorthand. The Office has received and preserved all data respecting this subject coming to it in the usual course of the discharge of its duties, and as far as possible has answered specific inquiries, but the growth of interest in shorthand and the great demands for information touching it led me to commit a special inquiry into the condition and progress of its instruction to the stenographer of the Bureau, Mr. Julius Ensign Rockwell. He has very effectively used the facilities of the Office in gathering from a vast and surprising variety of sources the data now available, showing the history and condition of education in this specialty. In his devotion to the subject it should in justice be said he has performed a large share of this work out of office hours and, as in all such cases, without additional compensation. Among the items of extra-official work I should specially mention the exhaustive bibliography of works on shorthand in the English language as entirely prepared out of Office hours and at considerable uncompensated personal expense.

The economic value of stenography is already abundantly illustrated in connection with Congressional and all other legislative work in the country, the administration of our National, State, and municipal courts, and in the conduct of all extensive correspondence, whether official or private. The demand for this clerical qualification has greatly increased within a few years. Our educators and all others interested in meeting this demand specially need the valuable and instructive facts contained in the accompanying manuscript, and I therefore recommend its publication as a circular of information.

Respectfully submitted.

W. T. HARRIS,
Commissioner.

Hon. J. W. NOBLE,
Secretary of the Interior.

SHORTHAND INSTRUCTION AND PRACTICE.

SHORTHAND SYSTEMS.

The earliest use of shorthand is involved in much uncertainty. Allusions to rapid writing in classical and scriptural works which were formerly supposed to refer to stenography are not now believed to warrant such renderings, and the translation of the statement of Diogenes Laertius to mean that Xenophon took down in characters the lectures of Socrates is unjustifiable. It is, however, conceded that short writing was used in Greece as early as the year 195 A. D., though no specimens of authentic Greek tachygraphy earlier than the tenth century are now known. In Rome Marcus Tullius Tiro, the freedman and friend of Cicero, undoubtedly used a method of stenography as early as the year 60 B. C., and the art is said to have been taught in schools. The Emperor Titus is mentioned as an expert notarius. The use of "Notæ Tironianæ" seems to have been revived in the ninth and tenth centuries, and, owing to the general use of wax tablets among the Romans, our knowledge of the method of Tiro has been principally gained from a study of these later writings.

The first English treatise on shorthand was entitled "Characterie—An Arte of shorte, swifte, and secrete writing by Character Inuented by Timothe Bright, Doctor of Phisike. Imprinted at London by I. Windet, the Assigne of Tim. Bright, 1588. Cum priuilegio Regiae Maiestatis. Forbidding all other to print the same." Doctor Bright was for a time a physician in St. Bartholomew's Hospital, London, and was afterwards rector of churches at Methley and Berwick-in-Elmet, in Yorkshire, and is known as the author of several works on medical and religious subjects. His shorthand method was dedicated "To the Most high and mightie Prince Elizabeth, by the Grace of God, of England, Fraunce, and Ireland, Queene, Defender of the Faith, &c."

"Cicero," Bright said, "did account it worthie his labour, and no less profitable to the Roman common weale (Most gracious Soueraigne) to inuent a speedie kinde of wryting by Character, as Plutarch reporteth in the life of Cato the yonger. This invention was increased afterward by Seneca; that the number of characters grue to 7,000. Whether through iniure of time, or that the men gaue it over for tedious-

“The Characterie Table” covers 11 pages and contains 537 words followed by the respective shorthand forms, all of which are to be committed to memory. The “Appellatiue Words” are included on 28 pages, while the “Table of English Wordes,” or dictionary, fills 180 pages. By applying a particular mark, generally a dot, to one side or the other of a “Characterie” word the meaning is changed to a synonymous word or one of contrary meaning, according to position. The dictionary is intended to indicate synonymous words, and begins, “abandon, *forsake*; abase, *high*; abashe, *blush*; abate, *great*; abbey, *companie*; abbote, *bishop*; abette, *defend*; abhominable, *filthie*; abhorring, *flee*; abyde, *continue*; abilitie, *can*; able, *can*; abolish, *destroy*; aboue, *ouer*.” Under “Aer” the following “Appelatiue Words” are given: breath, exhalation, miste, reeke, steame, vapour. Under “Arte:” Alchemie, arithmetike, astrologie, astronomie, chronographie, cosmographie, geographie, geomotrie, logike, musike, poetrie, rhetorike. By applying a mark to a general word the particular word intended could be indicated. “A word of the same sound, though of diuerse sense is written with the same, as fast, for abstinence from meat, for swiftness and sureness; so if it much differ not,” as whole and hole. “Primitiues and deriuatiues are known by the language, as he is a virtuous man, not a virtue man.” Words ending in ship or hood require “the character of ship to be placed underneath, and whether it, or hood be to be read, the language will plainly deliver. For no man will read either neighborhood or friendship.” A dash drawn through a character changed its signification, the sign for “good” with a dash across it being read as “not good.”

Peter Bales, a teacher of penmanship, brought out a system of shorthand two years after the publication of Bright’s treatise. This formed the first part of a volume entitled “The Writing Schoolemaster. Containing three Bookes in one; The first, teaching Swift writing; The Second, True writing; The third, Faire writing. The first booke, Entituled; The Art of Brachygraphie: that is, to write as fast as a man speaketh treatably, writing but one letter for a word; Verie commodious for the generall encrease and furtherance of learning in all Estates and degrees: the knowledge whereof may easily be attained by one moneths studie, and the performance by one moneths practise. The prooffe alreadie made by diuerse Schollers therein.” Bales’ brachygraphy was a method of abbreviated longhand, the object being, as stated, to represent each word by a single letter, the various words being distinguished by placing about the letters certain dots, commas, and other marks in various positions.

In 1602 John Willis, a bachelor of divinity, published anonymously at London “The Art of Stenographie, Teaching by plaine and certaine Rules, to the Capacitie of the meanest, and for the use of all professions, The way of compendious Writing.” This was the first system having a true stenographic alphabet, and its author distinguished his

method from those of his predecessors by calling it in later editions issued under his own name "Spelling Characterie." The alphabet will be found in the appended plate. Willis discarded the use of superfluous letters, represented c by k or s, the digraph ph by f, g by g or j, etc. "In every word," he said, "those letters are to be omitted which are but lightly or not at all sounded, whether they be vowels or consonants." Thirteen or more editions of this system were printed, a "Schoolmaster," still further explaining it, also being several times republished, and the "Psalmes" were engraved in this "character." Edmond Willis brought out in 1618 "An Abreuiation of writing by character," in which new signs were chosen for most of the letters.

No less than half a dozen shorthand systems had appeared after the publication of Edmond Willis's "Character" when Jeremiah Rich, in 1642, printed the Semography of his uncle, William Cartwright. This was destined to greater prominence than any other method had enjoyed and during the next one hundred and fifty years editions appeared from time to time; while as late as 1840 an improvement of Rich's system by the eminent divine Dr. Philip Doddridge was republished in London. Addy, Botley, and Stringer were indebted to Cartwright and Rich for the systems published under their respective names.

Thirty years after Cartwright's method was given to the world William Mason brought out "A pen pluck'd from an eagle's wing." Other books containing modifications of his method or new principles were issued in succeeding years and it was the system of this author, issued about 1720, entitled "La Plume Volante," which Thomas Gurney improved and published about 1750, and used in his work as stenographer in reporting trials at the Old Bailey in London. Twenty regular editions of Gurney's works, extending over one hundred and thirty years, have been issued, while the method has been republished by others in various forms. This system has been used in the Gallery of the British Parliament for more than a century, and Mr. Gurney-Salter states that it is the means of reporting the evidence printed in at least three-fourths of the blue books of parliamentary committees, royal commissions, etc., besides a large number of other inquiries, official and non-official.

John Byrom, of Manchester, a fellow of the Royal Society, invented a system of stenography which was published in 1767, after his death, under the title "The Universal English Shorthand." This system has been republished by a number of persons and is still used to some extent in England.

Dr. William Fordyce Mavor brought out a shorthand system in 1778. A new method issued two years later and entitled "Universal Stenography," became very popular, passed through ten editions, and is practiced at this day by a few professional shorthand writers in London.

"An essay intended to establish a standard for an universal system of stenography," by Samuel Taylor, published in London in 1786,

marks another stenographic era. The work passed through many editions, was reprinted in the United States, and the system adapted to the French, German, and Italian languages. The method was republished in more or less modified forms and manifold editions by Odell, Harding, Gould, and others. Next to Isaac Pitman's phonography Taylor's system is most used by English reporters for the press.

The publication of Isaac Pitman's "Stenographic Soundhand" in 1837 marked the beginning of the greatest epoch in the history of English shorthand.

The Phonographic Journal, lithographed in phonography, made its appearance in Manchester in January, 1842. This was afterwards known as the Phonotypic and later as the Phonetic Journal, and is now in its fiftieth volume, 25,000 copies being issued each week.

On the 1st of March, 1843, a "Phonographic Corresponding Society" was formed to correct the exercises of learners gratuitously through the mails. In four years the membership had reached 1,000. The name was afterwards changed to the Phonetic Society, and its existence to the present time has been uninterrupted.

The changes through which the system has passed will be of interest as showing the varied uses of stenographic material which have been suggested and practiced in half a century.

The appended plate contains the alphabet of 1837, and it will be seen that the letters t, d, k, g, th, th̄, m, n, l, r, ng, and y, and the small circle form for s remain unchanged at the present time. Dots¹ placed at the beginning, middle, or end of a consonant stroke represented the vowels ē, ā, ä,² while dashes in the same positions stood for a, ō, ōō, and small semicircles similarly placed indicated ī, ū, and oi, respectively. Ou was shown by a small acute angle pointed downward in first position, which in 1840 was selected for ī. Initial hooks indicated an added l or r. Only one sign, written upward, was used to represent r and when standing alone a tick was placed before it, the whole resembling a bookkeeper's check mark.

In the edition of 1840 great changes were made and the system was called "phonography." The alphabet appeared with a dozen new consonants, as shown in the accompanying plate. No consonant signs were provided for w and y, but small half circles were made to represent these sounds with a vowel following, in the three positions of the dot and dash vowels, small acute angles represented ī, oi, and ou, while right angles were used for wi and wow. L and r were joined to strokes either initially or finally, and r was added to l by making it heavy, while the shading of m changed its signification to mp. Making a character half its length added t or d, or n, the principle not being uniformly applied. This edition was issued on a sheet 7 by 8½ inches, printed on one side, the characters being engraved on copper,

¹See Isaac Pitman's alphabet in plate under date of 1871.

²The diacritical marks are explained on the page prefacing the series of alphabets.

and it sold for a penny. Its publication was contemporaneous with the introduction of penny postage in Great Britain and cheap postal rates favored its distribution. The third edition was issued in September, 1840, on two large sheets, while the fourth edition (1841) was a sheet 11 by 9 inches, printed on both sides with type and woodcuts. Like the preceding it was referred to as an edition not on account of changes in the system but to indicate its altered form of publication.

In 1842 the fifth edition appeared in three different forms known as the pocket, school, and people's editions, and published at prices varying from threepence to two shillings. In this edition the curved downward r was introduced, which was thickened to add l.

The sixth edition (1844), issued on a sheet while the seventh was being prepared in book form, introduced the seven-vowel scale, as follows:

Long: ē, ā, ä, a, uh, ō, ōō.

Short: ĭ, ĕ, ă, ǒ, ŭ, ǒǒ.

From 1844 to 1847 this scale, which had been suggested by A. J. Ellis, was used, but Mr. Pitman states, "The loud and continued dissatisfaction of nearly all the friends of phonetic spelling, and the impossibility of working the scheme satisfactorily, at length induced Mr. Ellis to consent to the rejection of the long uh, and with the appearance of the eighth edition, containing the old six-vowel scale, phonography sprang into new life." At this time all letters were halved to add t or d uniformly.

After the second edition Mr. Pitman says the "next important edition was the seventh, in January, 1845, containing many improvements, the result of the extensive practice which the system had then received from several thousand writers, who had used it in their correspondence and for all the purposes of common writing as well as for reporting. About two thousand copies monthly were sold of this edition, which was kept constantly standing in type, till the experience of teachers suggested improvements in the arrangement of the work, and a few minor matters of detail were found to need revision."

In the seventh edition loops for st and str were introduced; lr was represented by a hook placed before the character for l as well as by making the l heavy, and rl was expressed by a hook preceding the r. Final hooks for r and l were changed to represent n and tion.

The eighth edition, which was issued in 1847, introduced a hook struck backward before treble consonants to indicate n.

New signs for w and y were given in 1852 in the ninth edition, these being the curved characters for r and l, respectively, made heavy; the sign previously given to y was accorded to h; initial hooks to the liquids (l, r, m, n), transformed them into wl, wr, wm, and wn, while to avoid confusion in placing initial hooks to m and n to add r, the m and n were thickened; curved letters were made of double length to add thr.

In 1857 the vowel scale was changed from ē, ā, ä, to ä, ā, ē. Upon the publication of this modification in the tenth edition a revolt among writers of the system arose. The contest was long and determined. The change was gradually accepted in England; but American phonographers generally refused to sanction it. Benn Pitman adhered to the old vowel scale, as did A. J. Graham and other phonographic publishers. When, in 1867, Munson's text-book appeared, the new vowel scale was incorporated in his system.

A small final hook on the involute side of straight strokes to represent f and v was introduced in the tenth edition; tion was indicated by a larger hook; a stroke form (the third h in the alphabet of 1871 in the plate) was given to h, and the lengthening of a curve added to the original letter tr, dr or thr, thr only having been added in the ninth edition.

According to the eleventh edition (1862) w and y were represented by the signs wr and h of the ninth edition as well as by the heavy curves assigned them ten years before; double-sized initial hooks were made to represent thl and fl, which could be written in two ways, as though made of wire and turned over, as could also the signs for thr and fr, the r hooks being half the size of the l hooks. The prefix *in* before h was written with a small curve turned upward or downward, as was most convenient for joining.

Of the twelfth edition Mr. Pitman said: "We have used up all the stenographic material, and, as we who know the system so well believe, have used it in the best manner. If anyone can produce additional material—some stenographic sign, any hook, or crook, or circle, or straight or curved stroke, in any direction, that is not employed in phonography, or of which he can show a better use—we are willing to listen to him; but until some such proposition as that comes before us there will be no change in phonographic writing." The ninth-edition sign for y became again lr, as it had been in the seventh edition, while the w of the ninth edition represented rk or rg.

In 1869 a large initial hook on k made kw, while a large initial circle on k represented skw; w and y were allowed but one sign each: viz, the ninth edition characters for wr and h. In 1873 an h was added to the w by making the initial hook larger, and the rk or rg of the twelfth edition was changed to rh or rj.

Certain straight letters were made double length in 1884 to add thr, etc. In 1887 a large initial circle was used for sw, skw being indicated by writing an s circle inside of a large initial hook on k. The use of the heavy curve for rh and rj was discontinued in 1888.

CHRONOLOGICAL LIST OF AUTHORS AND ANONYMOUS WORKS IN THE ENGLISH LANGUAGE.

The following list includes only the names of those who have issued systems of shorthand or text-books on the art in the English language, with anonymous works of the same character. No mention is made of

works describing the advantages of the art, its history, literature, or practice, discussions of systems, magazines, works printed in shorthand characters, proceedings and other publications of stenographic societies, musical shorthand, shorthand numerals, or books of a similar scope.

The date following each name or work is that of the earliest authentic publication, and when the time of issue is not printed on the title page what is known or believed to be the date is given in parentheses.

Timothe Bright. 1588.
 Peter Bales. 1590.
 John Willis. 1602.
 William Folkingham. 1618.
 Edmond Willis. 1618.
 William Labourer. 1620.
 Thomas Shelton. 1620.
 Willoughby. 1621.
 Witt. 1630.
 Henry Dix. 1633.
 Mawd. 1635.
 Theophilus Metcalfe. 1635.
 William Cartwright. 1642.
 Jeremiah Rich. 1646.
 Simon West. 1647.
 John Farthing. 1654.
 George Dalgarno. (About 1656.)
 Job Everardt. 1658.
 Noah Bridges. 1659.
 William Addy. (1664?)
 Thomas Heath. 1664.
 John Wilkins. 1668.
 Pen's dexterity compleated. 1669.
 William Hopkins. 1670.
 William Facy. 1672.
 William Mason. 1672.
 S. Shelton. 1672.
 Lawrence Steel. (1672.)
 Samuel Botley. (1674.)
 Elisha Coles. 1674.
 Bartlett. (About 1675.)
 Nathaniell Stringer. (1680?)
 Art of short writing. 1684.
 Moses Lane. 1687.
 George Ridpath. 1687.
 Ratcliffe. (1688?)
 John West. (1690?)
 Abraham Nicholas. 1692.
 Walter Cross. 1698.
 Henry Barmby. (1700.)
 Francis Tanner. 1712.
 Stenography. (1712.)
 W. Mather. 1714.
 Samuel Lane. (1715.)
 Whole art of short writing. 1715.

James Weston. 1727.
 Philip Gibbs. 1736.
 William Webster. 1738.
 Thomas Cumming. (About 1741.)
 Thomas Andrews. 1744.
 Aulay Macaulay. 1747.
 W. C. 1748.
 P. M. 1748.
 Samuel Jeake. 1748.
 Peter Annet. (1750.)
 Thomas Gurney. 1750.
 William Tiffin. (1750.)
 John Angell. (1758.)
 Jonathan Smart. 1759.
 John Mitchell. 1760.
 Thomas Stackhouse. (1760.)
 Henry Taplin. (1760.)
 James Swaine and Joseph Simms. (1761.)
 David Lyle. 1762.
 Alphabet of reason. 1763.
 Mark-Anthony Meilan. 1764.
 Anthony Clayton. 1765.
 Wm. Holdsworth and Wm. Aldridge. (1766.)
 John Byrom. 1767.
 Joseph Gurney. 1773.
 John Palmer. 1774.
 Robert Graves and S. Ashton. 1775.
 William Williamson. 1775.
 Universal shorthand. 1776.
 Shorthand dictionary. (1777.)
 William F. Mavor. 1778.
 William I. Blanchard. 1779.
 Thomas Hervey. (1779.)
 Francis Peck. 1779.
 Edward Hodgson. (1780.)
 Samuel Soare. 1780.
 M. Nash. 1783.
 New scheme. 1783.
 John West. 1784.
 Samuel Taylor. 1786.
 Simon George Bordley. (1787.)
 William Graham. 1787.
 Elements of shorthand. 1787.
 Brachygraphy. 1788.

- Thomas Sarjeant. 1789.
 Henry Clarke. (1790?)
 Thomas Rees. (1790.)
 New treatise. (About 1790.)
 R. Tailor. 1791.
 John Cary. 1793.
 Thomas Molineux. 1796
 A. Crome. 1798.
 Philip Doddridge. 1799.
 Greathead. (About 1800.)
 William Harwin. 1800.
 Thomas Hodson. 1800.
 M. Radclyffe Prosser. 1800.
 Samuel Richardson. 1800.
 Henry Ewington. 1801.
 Stenography; being, etc. 1801.
 P. Roberts. 1802.
 Richard Roe. 1802.
 Pterography. 1802.
 Stenography, or the art of shorthand per-
 fected. 1802.
 Gard. 1803.
 Joseph Nightingale. (1803?)
 H. D. Symonds and T. Ostell. 1804.
 W. Williams. 1804.
 The Amanuensis. (1804.)
 George Nicholson. 1806.
 Thomas Brand. 1807.
 Benjamin Vale. 1808.
 I. H. Clive. 1810.
 C. Mangan. 1810.
 Thomas Oxley. 1811.
 E. Duncan. (1812?)
 James Henry Lewis. 1812.
 George Odell. 1812.
 Samuel Sams. 1812.
 Edward Lawson. 1813.
 James Adams. (1814.)
 John Dangerfield. 1814.
 A. W. Stones. 1814.
 Shorthand or the flying pen. 1814.
 J. H. Bobbett. 1815.
 T. Kitchingman. 1815.
 James Mitchell. 1815.
 Manual of short-hand. (About 1815.)
 James Duncan. 1816.
 Andrew Hunter. 1816.
 William Gardiner. 1817
 Aaron Floyd. 1818.
 Thomas Lloyd. 1819.
 Richard Farr. 1819.
 William Gawtress. 1819.
 J. Kelly. 1820.
 Phinehas Bailey. 1821.
 Peregrine Bingham. 1821.
 A. Walker. 1821.
 John Moon. 1822.
 Jonathan Dodge. 1823.
 Marcus T. C. Gould. 1823.
 William Harding. 1823.
 D. Hewett. 1823.
 George Jackson. 1823.
 Clement Walker. 1823.
 H. L. Barnum. 1824.
 W. Blair. 1824.
 M. D. Finn. (1824.)
 Charles John Green. 1824.
 Henry Orme. 1824.
 Isaac Stetson. 1824.
 Shorthand simplified. 1824.
 John Bennett. 1825.
 Langdale. 1825.
 Thomas Gibbons. 1825.
 Duncan McDougal. 1825.
 Henry Upington. 1825.
 Easy introduction, etc. 1825.
 W. A. Enfield. 1826.
 Thomas Gardner. 1826.
 E. Hinton. (1826.)
 Anthony Peacock. (1826.)
 Theophilus Williams. 1826.
 T. D. Knight. 1828.
 Charles Latham. 1828.
 W. Reynolds. 1828.
 Josias M. Steed. 1828.
 System of shorthand. (About 1828.)
 J. Carstairs. 1829.
 Complete system of stenography. 1829.
 G. H. Cooper. (About 1830.)
 J. P. Grellet. (1830.)
 J. Curtis. 1830.
 William Snell. (1830?)
 William Henshaw. 1831.
 E. Lloyd. (1831.)
 R. Shorter. 1831.
 Thomas Towndrow. 1831.
 Jasper and John Aitchison. 1832.
 Erastus B. Bigelow. 1832.
 John Henry Cooke. 1832.
 G. W. Jones. (1832.)
 W. H. Sigston. 1832.
 Lorenzo D. Grosvenor. 1833.
 Thomas Moat. 1833.
 Thomas Parker. 1833.
 Perkins. 1833.
 Robert Cabell Roffe. 1833.
 John Wells. 1833.
 John Gardner. 1834.
 Laming Warren Tear. 1834.
 Wood. 1834.

- Daniel Cadman. (1835.)
 R. Feeny. 1835.
 J. George. 1835.
 William Whitehead. (1835.)
 Complete system of short hand. (1835.)
 H. W. Day. 1836.
 Thomas How. 1836.
 Charles Kerin. 1836.
 T. Nelson. 1836.
 Joseph Webster. 1836.
 John Galloway. (1837.)
 Isaac Pitman. (1837.)
 E. Ventris. (1837.)
 Hints on shorthand. 1837.
 T. C. Foster. 1838.
 Franco Frank. 1838.
 S. W. Leonard. 1838.
 Eneas Mackenzie. (1838.)
 C. P. Newton. 1838.
 James Nye. (1838.)
 Alfred Peirce. 1838.
 A. G. Tyson. 1838.
 C. Williams. 1838.
 V. D. De Stains. 1839.
 L. B. Hanaford. 1839.
 R. Waddington. 1839.
 British shorthand. 1839.
 William Carpenter. 1840.
 J. Clarke. (About 1840.)
 Robert Dawson. 1840.
 Delaine. (About 1840.)
 G. Eyre. 1840.
 J. Fancutt. 1840.
 James Glover. 1840.
 Granville. (1840.)
 F. MacLoughlin. (About 1840.)
 Mudie. (About 1840.)
 W. and J. Short. (About 1840.)
 P. B. Templeton. 1840.
 Tyas. 1840.
 Improved concise system. 1840.
 Minute hand. (About 1840.)
 System of shorthand. (About 1840.)
 J. H. Buck. 1841.
 James Hargreaves. 1841.
 Samuel A. Good. 1842.
 Charles Saxton. 1842.
 John Shoveller. (About 1842.)
 Simeon S. Woodhouse. 1842.
 Penny system. 1842.
 G. Bradley. 1843.
 Gurney's system simplified. 1843.
 Stephen Pearl Andrews. 1844.
 C. Brumby. 1844.
 Alexander John Ellis. (1844.)
 Art of reporting. 1844.
 Self-instructor's assistant. 1844.
 Shorthand writer's pocket guide. 1844.
 Stephen P. Andrews and A. F. Boyle. 1845.
 George L. Artis. 1845.
 Keyes A. Bailey. 1845.
 Henry Jones. 1845.
 W. Shilleto. 1845.
 Stenography; or the art of shorthand. (About 1845.)
 E. Harmon. 1846.
 Michael T. O'Connor. 1846.
 Amasa D. Sproat. 1846.
 William Wilson. 1846.
 Henry Blundell. 1847.
 J. Best Davidson. 1847.
 Stewart Hardinge. 1847.
 Thomas Kentish. 1847.
 William Selwyn. 1847.
 Joseph Snaith. 1847.
 W. Plumb. (1848.)
 Alexander Melville Bell. 1849.
 James C. Booth. 1849.
 Elias Longley. 1849.
 Henry M. Parkhurst. 1849.
 Robert Patterson. 1849.
 Diamond shorthand. 1849.
 New system of phonography. (1849?)
 J. Jordan Coulter. (About 1850.)
 Francis Fauvel-Gouraud. 1850.
 Stenography. (About 1850.)
 Thomas Allen Reed. 1851.
 J. D. Everett. (1852.)
 W. H. Hart and J. Monteath. 1852.
 William Oliver. (1852.)
 Epinetus Webster. 1852.
 D. W. Heath. 1853.
 Clement R. Needham. 1853.
 Benn Pitman and R. P. Prosser. (1853.)
 James Drake. 1854.
 Andrew J. Graham. 1854.
 David Hammond. 1855.
 Martin Hubbell. 1855.
 Benn Pitman. (1855.)
 John Price. 1855.
 W. E. Scovil. 1855.
 Catechism of shorthand. 1855.
 George Cameron. 1856.
 John Huxham. 1856.
 William Lyle. 1856.
 John McCombe. 1856.
 Ebenezer Soper. 1856.
 George Vasey. 1856.
 D. S. Brown. 1857.

- Morris Coleman. 1857.
 Henry Dircks. 1857.
 Gassion. 1857.
 W. P. Strickland. 1857.
 Thompson Cooper. 1858.
 Thomas Mitchell. 1858.
 John L. Capen. (1859.)
 Crary. 1859.
 John Freeman. (1859.)
 Alfred Geiger. 1860.
 Thomas W. Hill. 1860.
 Short hints on shorthand. 1860.
 Gregory. (1861.)
 David Philip Lindsley. 1861.
 F. Foster. (1862.)
 Edward James Jones. 1862.
 Matthias Levy. 1862.
 F. Redfern. 1862.
 Joseph Beale. 1863.
 Gustav Michaelis. 1863.
 John Thompson. 1863.
 J. Rodham Carr. (1864.)
 T. D'Edmence. 1864.
 William Hall. (1864.)
 Alexis E. Marshall. 1864.
 William Pettigrew. (1864.)
 G. Berger. 1865.
 Peter P. Good. (1865.)
 Phonographic Alliance. 1865.
 Edward Fitch Underhill. 1865.
 W. W. Wright. (1865.)
 F. G. Fowler. (1866.)
 William P. Jacobs. 1866.
 Haney's phonographic handbook. (1867.)
 Andrew J. Marsh. 1867.
 James E. Munson. 1867.
 Frederick Pitman. (1867.)
 G. Pearson Renshaw. 1867.
 W. Mattieu Williams. 1867.
 Abbreviated longhand. 1867.
 J. B. Dimbleby. (1868.)
 J. K. Gardner. 1868.
 K. P. Ter Reehorst. (1868.)
 Alexander Herbert Thompson. 1868.
 J. H. L. Christien. 1869.
 H. L. Haskell. (1869.)
 Henry Newman. (1869.)
 Murdo Young. 1869.
 D. Birrell. (1870?)
 Eliza Boardman Burnz. (1870.)
 J. A. Gray. (About 1870.)
 J. E. H. (About 1870.)
 Marr. (About 1870.)
 Millard. 1870.
 R. Bailey Walker. 1870.
 Excelsior shorthand. 1870.
 Mahlon Oliphant. 1871.
 J. B. Rundell. 1871.
 Shorthand reporter's code. 1871.
 James Madison Allen. 1872.
 Singleton W. Davis. (1872.)
 George G. W. Morgan. (1872.)
 L. L. Willson. 1872.
 Bruce. (1873?)
 Robert Dunlop. 1873.
 William Parker. 1873.
 W. George Waring. 1873.
 C. J. Brown. 1874.
 S. Hunter. 1874.
 Wallace Ritchie. 1874.
 Robert Wailes. 1874.
 G. H. Wills. (1874.)
 Armstrong. (About 1875.)
 Alfred S. Childs. (1875.)
 John L. Driscoll. 1875.
 T. H. Gleason. (1875?)
 Curtis Haven. (1875.)
 Alfred Parsons. (1875.)
 William Passmore. (1875.)
 Summers and Clark. 1875.
 John Thompson. 1875.
 John S. Verity. (1875.)
 J. C. Zachos. 1875.
 Shorthand without a master. (About 1875.)
 Robert S. Goodman. 1876.
 Edward C. Hoyt. (1876.)
 T. W. Nixon. 1876.
 Alex. F. Roy. 1876.
 James Singleton. 1876.
 John Brown Smith. 1876.
 Henry Borchers. 1877.
 Samuel Kaufman and F. Buehler. 1877.
 George Luff. 1877.
 W. W. Osgoodby. 1877.
 A. J. Pernin. 1877.
 Helen M. Pernin. 1877.
 William P. Upham. 1877.
 James Williams. 1877.
 Thomas Anderson. 1878.
 James O. Clephane. 1878.
 J. George Cross. 1878.
 Noble E. Dawson. 1878.
 Albert L. Leusbuscher. 1878.
 Joseph Amable Manseau. 1878.
 Christopher Columbus Packard. 1878.
 A. J. Pernin and A. Mainville. 1878.
 Charles B. Strong. (1878.)
 Roscoe L. Eames. 1879.
 Joseph Hunt. 1879.

- D. Kimball. 1879.
 W. A. Nichols. 1879.
 James Richardson. 1879.
 W. E. H. Searcy. 1879.
 Harvey Worral. 1879.
 Scheme of shortened handwriting.
 (1879.)
 Arthur M. Baker. 1880.
 Charles C. Chase. 1880.
 J. L. Cobbin. (1880.)
 A. L. Davison. 1880.
 Henry R. Evans. 1880.
 Peter Gray. (About 1880.)
 L. A. Hardinge. 1880.
 George Harris. (1880?)
 Thomas Hine. (1880?)
 Carl Kammeyer. 1880.
 D. D. Lathrop. 1880.
 Alfred L. Lewis. 1880.
 James A. Noble. 1880.
 John R. Rankin. 1880.
 George A. Bell. 1881.
 Moncrieff Elliott. 1881.
 Thomas English. (1881.)
 Frederick Glanville. 1881.
 Henry McLagan. 1881.
 Edward Pocknell. (1881.)
 John T. Porter. 1881.
 James Simson. 1881.
 Charles Spiro. 1881.
 J. Taliaferro. 1881.
 Tobias Witmer. 1881.
 Frank Yeigh. (1881.)
 Shorthand made easy. 1881.
 D. L. Scott-Browne. 1882.
 Mr. and Mrs. D. L. Scott-Browne. 1882.
 Ida C. Craddock. 1882.
 William W. Daniels. 1882.
 A. Ginn. (1882.)
 Joseph Hammond. (1882.)
 Alfred Janes. 1882.
 W. B. Livingstone. 1882.
 Francis John Lock. 1882.
 E. J. Nankivell and Fred. Pitman.
 (1882.)
 David Augustus Peachey. 1882.
 Sawyer Brothers. (1882.)
 J. M. Sloan. 1882.
 H. R. Stoddart. 1882.
 W. S. Thomson. 1882.
 George H. Thornton. 1882.
 George G. Allen. 1883.
 Arthur J. Barnes. 1883.
 Alfred M. Browne. (1883.)
 Frank S. Dean and Joseph Mills. 1883.
 John W. Gibson. 1883.
 Edwin Guest. (1883.)
 M. G. Kimmel. 1883.
 J. F. Laning. 1883.
 A. T. Lawson. (1883.)
 John D. Lowes. 1883.
 Oliver McEwan. 1883.
 Charles Mayr. (1883.)
 Benn Pitman and J. B. Howard. 1883.
 F. Richmond and W. J. Shaw. 1883.
 E. R. Stickney. 1883.
 Miles Armitage. 1884.
 M. M. Bartholomew. (1884.)
 Eugene Benett. 1884.
 George R. Bishop. 1884.
 Frederick Childerstone. 1884.
 F. N. Close and G. W. Black. (1884.)
 Frederick H. Cogswell. (1884.)
 F. O. Dettmann. 1884.
 Miss M. P. Ellis. 1884.
 W. B. Gurney and sons. 1884.
 Harcourt H. Horn. 1884.
 W. C. Horner. 1884.
 F. S. Humphrey. 1884.
 A. McKnight and W. E. Morgan. 1884.
 Charles McPherson. (1884.)
 Adam Miller. 1884.
 R. E. Miller. 1884.
 Eldon Moran. 1884.
 James Neville. 1884.
 W. S. North. 1884.
 John Pickles. (1884.)
 William H. Slocum. 1884.
 S. N. Stewart. 1884.
 C. W. Taylor. (1884.)
 Frederick Todd. 1884.
 T. A. Turner. 1884.
 J. S. White. 1884.
 Reporter's handbook. 1884.
 W. R. Bailey. 1885.
 John Barter. 1885.
 A. Christie. 1885.
 John Coombe. (1885.)
 F. G. de Fontaine. 1885.
 John M. Kueh. 1885.
 Allan B. Lockett. 1885.
 George Carl Märes. 1885.
 W. J. O. Michell. (1885.)
 Charles Peters. 1885.
 Walter P. Phillips. 1885.
 T. M. Rogers and W. M. Carpenter. 1885.
 John Sawyer. 1885.
 Francis H. Valpy. 1885.
 W. M. Wilson. 1885.
 John Banvard. (1886.)
 William H. Barlow. 1886.
 John Baumeister. 1886.

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| George B. Bower. 1886. | Henry Richter. 1888. |
| R. B. Capen. 1886. | Robert A. Smith. 1888. |
| C. Austin Doran. (1886.) | J. L. Stephens. 1888. |
| Thomas S. Malone. (1886.) | H. O. Teale. 1888. |
| E. J. Marsh. 1886. | William B. Wylie. 1888. |
| W. L. Mason. (1886.) | G. K. Anderson. 1889. |
| William Medorn. 1886. | C. E. Baker. 1889. |
| Charles S. Olcott. 1886. | G. Ridsdale Blake. 1889. |
| D. Parker. 1886. | Hugh L. Callendar. 1889. |
| Louisa E. B. Barnes. (1887.) | H. M. Dean. 1889. |
| Charles C. Beale. 1887. | James H. Fish. 1889. |
| William Benson. 1887. | G. H. Gunston. 1889. |
| Henry H. Brown. 1887. | William Heather. 1889. |
| D. S. Davies. 1887. | C. W. Johnston. (1889.) |
| Alfred Day. 1887. | C. E. McKee. 1889. |
| Charles A. Dutton. (1887.) | W. O. Melton. 1889. |
| J. Greevs Fisher. 1887. | H. Mills. 1889. |
| Andreas Gottschling. 1887. | Mrs. L. H. Packard. 1889. |
| George W. Hall. 1887. | O. R. Palmer. (1889.) |
| E. S. Gunn. (1887.) | J. W. Sanders. 1889. |
| A. Rudy. 1887. | Mrs. J. E. Schott. 1889. |
| Frank Sweet. (1887.) | Timothy Slee and — Debes. (1889.) |
| Bates Torrey. 1887. | Ernest Smart & Co. 1889. |
| John Watson. 1887. | J. H. Sublett. 1889. |
| Alexander T. Wright. (1887.) | L. B. Woolfolk. 1889. |
| Mrs. L. Bronson. 1888. | Lineography. 1889. |
| J. S. Campbell. 1888. | T. J. Allen. 1890. |
| Mrs. M. Alderson Chandler. 1888. | E. J. Andrews. (1890?.) |
| Isaac S. Dement. 1888. | John Box. 1890. |
| W. B. Dickson. 1888. | T. J. Caton. 1890. |
| C. A. Duren, A. W. Vint, and W. H. Somersall. 1888. | A. C. Crain. (1890.) |
| Henry Freeman. 1888. | E. N. Fesler. (1890.) |
| John R. Gregg. (1888.) | Justin Gilbert. 1890. |
| W. H. Hamersly. 1888. | Aldis O. Hall. 1890. |
| Joseph A. Hecht. 1888. | F. H. Hemperley. 1890. |
| N. P. Heffley. 1888. | Alden S. Huling. (1890.) |
| John George Hodges. 1888. | John S. Hull. (1890.) |
| C. P. Kingsford. (1888.) | Charles Morrell. 1890. |
| George Lane. 1888. | I. J. Paddock. 1890. |
| E. G. Mann. 1888. | S. I. Strayer. 1890. |
| F. L. Meares. (1888.) | M. W. Woodward and C. H. Hastings. 1890. |
| F. J. Mulvey. 1888. | James Edmunds. 1891. |
| E. M. Palmer. 1888. | May E. Millikan. 1891. |
| C. Herbert Reed. 1888. | F. W. Mosher. 1891. |
| | T. C. Strickland. 1891. |

For the following authors and works it is impossible to assign definite dates:

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| Ball, previous to 1690. | Maugham, modern. |
| Blandemore, previous to 1800. | New system of stenography. |
| Blosset, previous to 1727. | W. S., modern. |
| Buttch, previous to 1700. | Schoeb, modern. |
| Ewen, previous to 1758. | J. Sidney, modern. |
| Grogan, modern. | System of shorthand. |
| Higham, previous to 1758. | Stileman, previous to 1674. |
| Linguistic shorthand, modern. | James Wood, modern. |
| Lucas, modern. | |

SHORTHAND IN FOREIGN COUNTRIES.

ARGENTINE REPUBLIC.—The Chamber of Deputies was officially reported by means of stenography in 1831, and two years later instruction in the art under Government authority was given. The system of Marti in a modified form is used by some of the stenographers in the Senate, but most of these and all the reporters in the Chamber use Isaac Pitman's phonography, as adapted to the Spanish language by Guillermo Parody. The system of Garriga y Marill is used to a limited extent. An adaptation of Gabelsberger's system by Johann Neumeier has been printed at Buenos Ayres and instruction is given by its translator at the Colegio Nuevo. Phonography is taught in several schools in Buenos Ayres and at the Colegio Nacional and the Colegio de Salvador.

AUSTRALIA.—The Gurney system is used by Mr. Bell, the government shorthand writer at Melbourne, and by his staff, but Isaac Pitman's phonography is principally used in Australia. The Victorian Hansard staff consists of four stenographers.

AUSTRIA.—Carl Weizmann, secretary of the Gabelsberger Stenografen-Central-Verein of Vienna, has furnished the following statement:

In Austria the system of Franz Xavier Gabelsberger (born February 9, 1789, in Munich, where he died January 4, 1849) is used almost exclusively; the system of Carl Faulmann (Vienna), published in 1875, is in general a combination of the Gabelsberger and Stolze elements, scarcely known in Austria and very little in Vienna. The original system of Gabelsberger is exclusively taught in public schools for the following languages: German, Italian, Czechish, Polish, Ruthenian, Slavonian, and Croatian, and is used exclusively in the legislative bodies—"the council of the realm and the delegations,"—and in the seventeen provincial diets for the official stenographic records. In the courts of justice the use of shorthand for official matter is limited, and only in some cases where complainants or defendants make a special request and pay the expenses of the same, a stenographical reproduction is ordered by the court. If the appointed stenographer takes an oath, his protocol is considered as an official paper. Many officers of the court-house use stenography in their own work, as most of them have studied the Gabelsberger system in the middle schools. An extensive use is made of shorthand (with few exceptions the Gabelsberger system) at public and private assemblies, congresses, etc.; in newspaper offices, by the editor, and for writing reports; in the offices of attorneys and notaries; by authors and in commercial business. In the latter a thorough knowledge of stenography is made conditional for appointment.

Of late, shorthand has been used much in connection with telephonic communication. The telephone operator, who fastens the ear-piece to a helmet, takes down the message in shorthand, by means of which much time is saved as well as expense. For the instruction at schools only the Gabelsberger system is permitted. For a period of forty years this system has been taught at Gymnasia, Real-schools, Real-gymnasia, commercial schools, and superior schools (universities, technical high schools, and agricultural schools). The teaching of stenography was introduced by the Government; it is not obligatory, but the teachers are obliged to pass an examination before the board of commissioners appointed by the state. Such authorities were appointed in Vienna (1860); Prague (1865); Innsbruck (1860); Graetz (1877); and Lemberg (1885).

In Graetz and Innsbruck one can also take an examination for shorthand in the Italian language; in Prague, in Czechish; and in Lemberg, in Polish and Ruthenian. More than five hundred teachers passed a State examination in Austria, among whom were four ladies. The Gabelsberger stenography is also taught in military institutions by examined teachers. From June, 1888, to June, 1889, at 220 public institutions in Austria, more than 12,000 pupils were taught the Gabelsberger system, 4,000 of whom belong to Vienna. Of this number the larger proportion (8,800) belong to German institutions and 3,000 to the Czechish schools. In Austria there are at present 85 stenographic societies with 4,500 members; among these, 8 Czechish and 2 Italian societies follow the Gabelsberger system, and they taught in the year 1888-'89 about 3,200 pupils. The oldest society in existence is the Gabelsberger Stenographic Central Society established in Vienna in 1849. Faulmann's system is furthered by 5 societies, consisting of 400 to 500 members, who teach in private courses. We have no reliable statistics at hand relative to the diffusion of this system. One of the most important stenographic journals of the Gabelsberger system, is that published by the Stenographic Central Society in Vienna, "*Oesterreichische Blätter für Stenografie*," with the supplement "*Lesehalle*" and "*Militär-Stenografie*." Altogether there appear 10 Gabelsberger journals in Austria, of which 7 are German and 3 Czechish; and 3 small journals for the Faulmann system.

Of the literary publications for the Gabelsberger system, recently published in Austria, should be mentioned: Text-book and reader, by Franz Scheller; reader, by Carl Engelhard; text-book and reader and list of abbreviations, by Josef Schiff; text-book and reader, guide-book for reading and list of abbreviations, by Vincenz Zrvierzina; "*Pearls of Stenography*," by stenographical societies in Sternberg; a pocket book, with key and list of abbreviations, published by the Vienna Central Society and edited by Carl Weizmann; text-books by Conn, Kühnalt, Heinrich Zeplichall, Markovitz, Faulmann. For Faulmann's system: Text-books, by Faulmann and Kramsall. The German Gabelsberger stenographical societies of Austria belong nearly all to the "*Deutscher Gabelsberger Stenografen-Bund*" (Union of German Gabelsberger Stenographers), which comprises most of the German societies in Europe and America using the Gabelsberger system. Nearly all the Austrian Gabelsberger societies belong to the union of stenographers, and there are besides societies which teach the Gabelsberger system in lower Austria, upper Austria, Bohemia, Moravia, and Silesia.

BAVARIA.—Gabelsberger's system has been taught in the high schools since 1854. Teachers paid by the Government are engaged at some colleges.

BELGIUM.—M. Edouard Lacomblé, stenographic reviser of the senate and chief stenographer of the chamber of representatives, writes as follows:

Shorthand writers are employed in the Belgian Chambers to report the debates. In the Chamber of Representatives there are eight stenographers, including the chef of the service, who takes his share of the work. There is also an extra stenographer who fills the place of anyone who is temporarily absent through illness or any other cause. The minimum salary is 4,000 francs a year, the medium 5,200 francs, the maximum 6,400 francs; the chef receives 7,000 francs a year. In the Senate there are six stenographers and a chef who revises the reports; they receive from 1,200 to 2,500 francs, and the chef 4,200 francs a year. The engagements are permanent.

Stenographers are also employed in the provincial councils and in the common council of the principal towns and communes.

There are no official shorthand writers in the law courts; when parties wish to have the report of the evidence or debate, which only occurs in cases of great importance, they generally apply to parliamentary stenographers.

The system most generally used is Prévost's; Duployé's is also used, but by a very few.

Shorthand is not taught in the public schools. As to the free schools, there are perhaps some where shorthand is taught as a supplementary and optional branch, but no practitioners are known to have been taught in them. Pupils are either self-taught or instructed by members of the profession.

We do not know of any shorthand magazines or stenographic societies. In fact, shorthand is but little used in Belgium, except in the Houses of Parliament and public assemblies.

BRAZIL.—Manuel José Pereira da Silva Velho issued in 1852 a system of stenography and later brought out several other works on this subject. Marti's system is also used; an adaptation of Gabelsberger's system has been issued at Rio de Janeiro by Director Niemeyer, and the system of Taylor has been published by José Nunes Garcia.

The proceedings of the Senate are now reported by contract with the Government and published in the *Correio Mercantil*, a daily newspaper. For many years the *Jornal do Commercio* held this contract, but now reports and publishes only the proceedings of the Chamber of Deputies. Five shorthand writers are employed in the Chamber of Deputies, while a single stenographer does the reporting of the Senate.

BULGARIA.—Herr P. Konstantinoff, stenographer and teacher of shorthand in the Classic Gymnasium at Sophia, makes the following statement:

The present position of shorthand in Bulgaria is encouraging. It is only ten years since it was introduced in the principality. Its future is promising and it is in a much more forward state here than in any other neighboring country. During the last two years it has made great progress, having been introduced into practice in more branches of the Government and having been taught in many more educational institutions. From 1879 to 1884 shorthand was taught by Prof. Antoin Bezenšek in the Gymnasium in Sophia and in special shorthand courses conducted in the building of the National Assembly. During 1885 and 1886 the same professor taught a great many students from the Gymnasium in Philippopolis. During 1887 the art was taught in Philippopolis, Sophia, in special courses by the shorthand society in Kazanluk and in a Bulgarian school in Constantinople. At present there are 140 pupils in Philippopolis, 128 in Sophia, and 50 in Kazanluk. The teacher in Philippopolis is Prof. Bezenšek; in Sophia, Herr Konstantinoff, and in Kazanluk, Herr Krustaff.

After the inauguration of the constitution of the principality, the need of shorthand was felt. In consequence the first Bulgarian ministry sent for Prof. A. Bezenšek from Austria to practice and teach it in Bulgaria. He introduced the Gabelsberger shorthand in taking the reports with Mr. Prošek of the first regular National Assembly, held in 1879. In the following year they practiced it in the second assembly. In 1881 the constitution being suspended, shorthand was not practiced in national assemblies, but it was used in many other cases, for instance, in many criminal cases and in copying medical and liberal lectures delivered in Sophia. Many of the proceedings of the Roumelian assemblies were taken in shorthand by Prof. Bezenšek and his pupils. From 1884 to 1890 shorthand in the national assemblies in Sophia has been used exclusively by Bulgarians. At present the shorthand bureau of the national assembly consists of five shorthand writers and five assistants. Shorthand has not been introduced yet into the courts. In addition to the cases mentioned above it has been used in copying addresses delivered in favor of

the union of Bulgaria and Roumelia, of the thousand years' jubilee of the slavie teachers Cyril and Methodii, etc., and on many other occasions. We can enumerate over ten different literary productions on the art published at different times by different authors. Two or three of them are journals, some of the rest are text-books on shorthand, some contain lectures on the subject, and some different accounts relating to shorthand matters. A shorthand association was formed by the enterprise of the National Assembly stenographers during November, 1886. Its object is the extension and perfection of Bulgarian shorthand after the system of Gabelsberger. The association is under the patronage of the ministry of public instruction and has opened special courses for the study of the art and begun the publication of a stenographic journal. In the beginning the association had twelve regular members and one honorary member. On April 13, 1887, the number of its members amounted to eighteen. By March 20, 1888, the revenues of the association were 791 francs and the expenses 743 francs. During the first half of 1889 the members numbered twenty-five. On account, however, of the uncertain condition through which Bulgaria is passing and which is pressing quite harmfully upon social life, the association has suspended its meetings for the present. On its part the Government has done its best to help and encourage the shorthand art.

CANADA.—Shorthand is very largely employed in law, mercantile, and railway offices, and its field is constantly increasing. Pitman's phonography is mainly used.

DENMARK.—Gabelsberger's system was adapted to the Danish language by D. Dessau and published in 1853. Paludan and Dessau, in 1850, began reporting the proceedings of Parliament, each with a corps of eight assistants.

Mr. Dessau, the director of the Parliament Office, writes that his translation of Gabelsberger is now used in the Rigsdagen, and that under his management sixteen stenographic assistants and four revisors are at present engaged in reporting the parliamentary proceedings. During the year of 1888-'89 Dessau gave instruction to seventy-five persons, including five women, at the training school for parliamentary stenographers, conducted at Government expense, and to twenty-seven others at the Naval Officers' School. Instruction in shorthand was also given by other teachers to ninety-five persons, including thirty-nine women, in three private schools. The only shorthand society in Denmark is the Danish Gabelsberger Stenographic Society. No shorthand journals are published.

ENGLAND.—Mr. Gurney-Salter states that the journals of the House of Lords record that in 1699 a shorthand writer was called in to take notes of what took place in a divorce bill. This was followed by a similar proceeding in the case of another bill in 1700. In 1789 the House of Commons during the Warren-Hastings trial called the shorthand writer to the bar and required him to read from his notes the exact words used by Mr. Burke. In 1802 shorthand writers were employed by act of Parliament for recording evidence in election committees and the following year the report of a select committee of the House of Commons stated that this use of shorthand had expedited business and decreased expense.

The proceedings of Parliament have been reported semi-officially and

published in Hansard's Parliamentary Debates, established in 1803 and but recently discontinued. For many years the proceedings for each session filled from five to twelve volumes. The staff consisted of six or seven stenographers, who were regularly employed, and frequently as many more were engaged for additional work.

In 1887 it was stated that nine systems of shorthand were represented in the gallery of the House of Commons, Pitman's, Taylor's, and Gurney's being principally used and in the order specified. Of the official reporters (who report committees, but not proceedings of Parliament itself) all, except one, employed the system of Gurney, and of the shorthand clerks twelve used Gurney's, four Pitman's, and one Taylor's system. Transcripts have been made by shorthand clerks, to whom the stenographer's notes are sent every half hour and who dictate to two longhand writers at the same time, thus producing copy at the rate of about twenty-eight hundred words an hour. These shorthand clerks read with wonderful facility, and often, Mr. Gurney-Angus states, better than the shorthand writers who take the reports.

There are (with possibly one or two exceptions) no official court reporters in England who are sworn as in the United States to take verbatim notes of evidence, etc., and are recognized as court officers, and, while the reporting of trials is common, this is done under instructions of counsel, each contestant in important cases employing a shorthand writer. The judges' notes of evidence constitute the record in cases of appeal, but as a matter of fact stenographers' transcripts are generally accepted by the courts where questions as to testimony submitted arise. Official court stenographers are employed in some of the provinces of Great Britain and to some extent in Scotland, as well as in the United States, but are almost unknown in Europe.

Mr. Isaac Pitman, the inventor of phonography, has furnished the following statement in reference to the use of his system in England:

The conservatism and innate distrust of change, which is inherent in the English character, has for some time militated against a general diffusion of a knowledge of shorthand. Once convinced, however, of the desirability of change, the rapidity with which means are found to meet the altered conditions is scarcely less remarkable than the resistance with which the change was previously met.

At the time (1884) when the former circular of information was compiled, Isaac Pitman's phonography was taught in comparatively few schools beyond the special business colleges or schools of shorthand established in some of the larger towns. Now it can be fairly stated that in no country in the world are the facilities for learning it so widespread or so far-reaching as in Great Britain. From the high-class foundation schools, such as Rugby, Malvern, etc., to the humble board school evening class, where the fees are merely nominal or the tuition possibly free, there is a chain of educational institutions which afford everyone an opportunity of easily and cheaply acquiring a knowledge of this time-saving art.

The Jubilee of Phonography and the Tercentenary of Shorthand, held in the autumn of 1887, had a wonderfully stimulating effect on the study of phonography. The numerous press notices and articles which appeared, by calling public attention to the subject, brought about what might be termed a phonographic revival.

The system in by far the most general use is that of Mr. Isaac Pitman, and from the statistics of reporters it will be seen that it is used by 93 per cent. Were the figures taken on larger numbers it would probably be found that this percentage would be increased to 97 or 98 per cent. A large proportion (4 per cent) of the reporters in the London press agencies were taught Taylor and Gurney before the advent of phonography, while in the provinces the majority of reporters have learned shorthand since the publication of phonography. From a census of reporters using it on the Australian press it appears that the proportion of Pitman writers is 96 per cent.

Phonography is a subject for examination with the following bodies: The Society of Arts, the Lancashire and Cheshire Union of Institutes, the Yorkshire Union of Institutes, etc., and next to bookkeeping forms the favorite study.

Isaac Pitman's system of phonography has been adapted to French, German, Dutch, Spanish, Italian, Welsh, Hindoo, and Malagasy. Including the numerous modifications of it, which may properly be termed Pitmanic systems, it is doing nine-tenths of the reporting, correspondence, etc., of the English-speaking world.

Under the new education code of 1890, shorthand forms one of the fifteen "specific subjects," any two of which can be taken by the scholars in Standards V, VI, VII, in any of the 20,000 board schools scattered over Great Britain. A grant of 4 shillings per head per annum is given, and the study is spread over a period of three years. In practice the time is not so long, as the greater part of the scholars leave before the completion of the three years. Grants are also given in board-school evening classes of 2 shillings per head. These evening classes are a continuation scheme of education for scholars who have left the board-school day classes. The technical instruction act of 1889 provided for instruction in commercial subjects, including shorthand, but very few towns availed themselves of its provisions, as there was no contribution from the Imperial treasury in aid of local effort. Now, however, grants are given in addition to the local sums expended, and Sheffield, one of the first towns to avail itself of the provisions of the technical instruction act, included phonography as a form of instruction required in that district.

Notwithstanding the fact that phonography has not hitherto been assisted by grants, the number of scholars who have taken up the study in board schools is considerable. Statistics show that in London 1,009 boys and 42 girls are being taught Isaac Pitman's shorthand under the board; and in the provinces 2,932 boys and 147 girls; making a total for Great Britain of 4,130. These figures must not be taken as including all that are learning. A teacher in Manchester, where nearly 1,000 board-school children are instructed in this subject, states that the number given in his return is "irrespective of the large number attending the elementary evening classes of the board."

Statistics have been compiled of the numbers learning phonography in Great Britain, but as the figures have been collected for the first time, and no effort has been made to include those receiving private instruction, they are necessarily incomplete. The returns show that 34,739 males and 3,028 females, making a total of 37,767, were under instruction in February, 1890. These students were taught in 1,260 colleges, schools, institutions, and private classes by 875 teachers, 111 of whom teach in London. The number being taught for the whole of last year was 44,730.

As the members of the Phonetic Society, which yearly receives an addition to its number of 4,700 members, correct the exercises of pupils free of charge, very many persons learn privately, and no attempt has been made to include these in the above figures. Were it possible to include all those who are learning phonography there is little doubt that it would very nearly approach the number who buy "The Phonographic Teacher," of which 150,000 copies are purchased every year.

The literature of Isaac Pitman's phonography is extensive, the number of works now published (instruction books and shorthand reading books) being 84. If all that have been issued since the commencement were reckoned, many of which are

out of print, the total would exceed 150. Among the works printed entirely in phonography may be mentioned *Æsops Fables*, *Bacon's Essays*, *The Bible* (lithographed three times and now being reprinted), *Blackie's Self-Culture*, *The Book of Common Prayer*, *Paul Clifford*, *John Bunyan*, *The Church Service*, *The Ancient Mariner*, *The Poetical Works of Cowper*, *John Halifax*, *Pickwick Papers*, *A Christmas Carol*, *Oliver Twist*, *the Vicar of Wakefield*, *Gray's Elegy*, *Little Things of Nature*, by L. H. Grindon; *Tom Brown's School Days*, *The Legend of Sleepy Hollow*, *Rasselas*, *Macaulay's Biographies*, *Macaulay's Essays*, *Milton's Paradise Lost*, *Scott's Waverly* and *Ivanhoe*, *Heaven and its Wonders*, by Emanuel Swedenborg; *Gulliver's Travels*, *Thankful Blossom*, by Bret Harte; *The Autobiography of Benjamin Franklin*, *Tales and Sketches*, *Gleanings from Popular Authors*, *Leaves from the Note Book of T. A. Reed*, *Representative British Orations*. and numerous smaller works. Of the *Phonographic Teacher* 1,370,000 have been issued, and of the *Manual* 650,000. Large quantities of these books go to the colonies and to America, and as Mr. Pitman has recently established a branch of his publishing business in New York, in all probability an increasing number will go to America. Two weekly periodicals are published, the "*Phonetic Journal*" having a circulation of 25,000; and seven monthly shorthand magazines.

From a census taken of the principal London and provincial papers and news agencies, and based on 607 journalists, Isaac Pitman's system of shorthand was used by 569 of these; that is, by 93 per cent.

Certificates are granted by Mr. Pitman for speed, for theoretical knowledge of the system, and also for a knowledge of the *Teacher*. These speed certificates, granted through shorthand associations, form a valuable means of gauging a student's knowledge of the art. With a view of stimulating the study of phonography, Mr. Pitman offers annually gold, silver, and bronze medals for proficiency in writing, which are granted through the various phonographic associations. A phonographic society is in course of formation to embrace all the provincial and metropolitan associations, to constitute a central body to promote the interests of phonography and to raise the status of its practitioners.

Mr. Pitman has recently erected some new premises for the production of his phonographic literature. The building covers a quarter of an acre; the number of hands employed is over 50, and the weekly output of phonographic matter weighs about 2 tons.

The *Phonetic Journal* for June 6, 1891, contains statistics of instruction in phonography for the year 1890. Returns were received from 793 teachers, giving instruction, at the date of the return, in 1,520 schools and classes to 46,428 persons, of whom 4,741 were females. The total number for the year was 55,558, an increase of 11,828 upon the figures of 1889. In the board schools of London 2,551 boys and 920 girls were taught phonography, while in the provinces the students consisted of 5,592 boys and 873 girls, an increase for the year in the schools last mentioned of upward of 150 per cent.

J. M. Sloan states that since the issue of the *Sloan-Duployan Instructor* in December, 1882, 230,000 have been sold, and that his system is taught in more than 600 schools and colleges.

FINLAND.—Lieut. August Fabritius, of Helsingfors, has furnished the following statement:

The system of Gabelsberger, which was translated into the Swedish language about 1860, was during the course of the next few years adapted to the Finnish by Svan, and since that time stenography has been employed in the parliamentary

service in Swedish, in the two chambers of nobility and cities, and in the two other chambers of the clergy and peasantry both the Swedish and Finnish languages are used. The shorthand notes are transcribed by women, who have acquired great skill in reading shorthand and who use typewriters. The salaries of the parliamentary stenographers range from \$260 per month for the chiefs of bureaus to \$40 for the youngest apprentices. There are three shorthand associations, one in Helsingfors with about 200 members, one in Åbo and one in Borgå. Instruction in the art has been given in the normal school at Helsingfors and at the Swedish school for boys and girls in the same place. Private instruction has also been given in Björneberg, Borgå, Helsingfors, Tammerfors, Tavastehus, Uleåborg, Wasa, and Åbo. For disseminating the art two monthly journals are published, one in Swedish, called *Tidning för Stenografi*, and one in Finnish entitled *Pikakirjoituslehti*. The art is extensively used by students in making notes of lectures delivered by the professors at the University of Helsingfors, which are frequently transcribed on typewriters, lithographed, and offered for sale.

FRANCE.—In 1651 Jacques Cossard published the first method of shorthand in France. Thirty years later Charles Aloysius Ramsay published his *Tachéographie* in French and Latin. Coulon de Thévenot issued a shorthand method of his own invention in 1778, editions of which were printed in 1779, 1782, 1794, 1802, and 1827. Bertin adapted the English method of Taylor to the French language in 1792, and several editions of his work were printed. Conen de Prépéan and Prévost issued modifications of the Bertin system, the first in 1809, the other in 1828. Several stenographic methods are now used in the French Parliament. The proceedings in each house are reported by a corps of 13 stenographers, 6 revisers, a sous chef, and a chef. The “rouleurs” take notes for two minutes only each, while the “réviseurs” write for fifteen minutes each. L’Institut Sténographique des Deux Mondes is reported to have over 3,000 members and there are 40 other societies devoted to the propagation of the Duployan system. The followers of the Prévost-Delaunay and Grosselin methods have one society each, while there are two societies to disseminate the Aimé-Paris style. Stolze’s stenography, adapted by Michaelis, is used to a limited extent. Dr. Weber states that there are 3,000 elementary schools in France in which the method of Duployé is taught. The Association Professionnelle des Sténographes Français was organized in 1890, having for its objects the examination and certification of competent stenographers and the general interests of the profession. Monsieur Grosselin, chief of the stenographic service in the Chamber of Deputies, is the president.

M. Joseph Depoin, stenographer of the Chamber of Deputies and president of the Institut Sténographique des Deux Mondes, states that 14 editions of Duployé’s system have been issued. The publications of the institute (organized July 18, 1872) number nearly 400 volumes, many languages being represented. M. Duployé has taught shorthand in the Superior Normal School, the Polytechnic School, the Military School of St. Cyr, etc. “Le Sténographe” has been issued every week since its appearance in 1869; it is now called “Le Journal des Sténographes.” Since the year mentioned 120 Duployan shorthand magazines have

appeared, the oldest being "La Lumière," formerly "La Dictée" (1871), "Le Progrès" (1876), "La Gazette" (1877), "Le Telephone" (1880), and "L'Eclair" (1886). The Stenographic Institute has issued 3,600 certificates to persons who have proved themselves possessed of a correct knowledge of the art, and 250 diplomas have been granted since 1872 to those who have demonstrated their ability to write 100 words or more per minute.

GERMANY.—The earliest shorthand method published in Germany (1679) was an adaptation of the English system of Shelton. Taylor's shorthand was adapted to the German language by Mosengeil and Horstig in 1796 and 1797 respectively. The two leading systems of stenography to-day are those of Gabelsberger and Stolze. The method of Franz Xavier Gabelsberger, secretary of the Bavarian ministry, was not published until 1834, after it had been practiced for seventeen years. His characters are formed from the ordinary longhand script instead of geometric signs. Henry August Wilhelm Stolze published his system in 1841. It is based upon that of Gabelsberger, and some of the alphabetic characters are the same. The system of Leopold Frederick Arends was first published in 1850, and an improved edition appeared in 1860. The assertion that its basis was the French method of Fayet has been vigorously denied, but there are many points of similarity. Roller's stenography and Lehmann's steno-tachygraphy are modifications of the Arends system. The system of Stolze has been published in three different styles, known as the old, the intermediate, and the new Stolze, while further efforts to alter it have been made by Velten, Merkes, and others. Gabelsberger's stenography has been modified by Faulmann and Schrey. Besides these, many other systems have been printed, those issued by Brauns, Friedrich, Herzog, Kluge, and Vogel being perhaps the most noteworthy.

Dr. Zeibig gives the following figures with reference to Gabelsberger's system for the year ended June 30, 1889: There were at that time 703 societies, with 18,470 regular members, of which 547 societies were in the German Empire, their membership being 13,375. In Austria-Hungary there were 101 societies, having 3,586 regular members; in Switzerland, 9 societies, with 165 members; Italy, 17 societies, with 560 members; Denmark, 1 society, with 52 members; Sweden, 18 societies, with 269 members; Norway, 1 society, with 26 members; Finland, 3 societies, with 246 members; Bulgaria, 1 society, with 21 members; England, 1 society, with 20 members; France, 1 society, with 12 members; United States, 3 societies, with 138 members. The number of persons instructed in Gabelsberger's shorthand during that year was 26,650 in schools, 11,867 out of schools. Of these 19,522 were in the German Empire, 17,414 in Austria-Hungary, 141 in Switzerland, 677 in Italy, 193 in Denmark, 103 in Sweden, 69 in Finland, 13 in Norway, 230 in Bulgaria, 15 in Turkey, 11 in Greece, 10 in France, and 105 in the United States. The Italian school of Gabelsberger-Noë has 19 societies, 17 of which, with 560 members, are in Italy and 2 in Austria.

In this method there have been 841 persons instructed. Eight societies, with 269 regular members, represent the Gabelsberger system as adapted to the Bohemian language, and instruction was given to 6,134 persons, 10 persons being instructed in the method as adapted to the Croatian tongue and 72 to the Polish adaptation. Commissions appointed by the government to examine candidates for teachers of stenography exist in Austria-Hungary, Bavaria, and Saxony. The system of Gabelsberger is used to record the legislative proceedings in Prague, Agram, Buda-Pesth, Sophia, Athens, Copenhagen, Christiania, Stockholm, and Helsingfors. The proceedings of the chambers in Bavaria, Baden, Württemberg, Hesse, Saxony, Saxe-Weimar, Coburg-Gotha, Alsace-Lorraine, Bremen, and the Austrian Reichsrath are reported by Gabelsberger stenographers, while half of the stenographers in the German Reichstag, as well as in the Hungarian Parliament, use the same method. It is practiced also in taking down the proceedings of the provincial assemblies at Silesia and the Rhine provinces.

Gabelsberger's stenography has been embraced in the official curriculum of the high schools in Saxony since 1873. The members of the Royal Stenographic Institute at Dresden give instruction in shorthand, and for every such course the Government pays them the sum of 210 marks. Up to 1888 certificates of competency to teach the system had been issued by that institute to sixty-six persons.

The first society devoted to the propagation of Gabelsberger's system was organized at Leipsic in 1846. Four hundred and fifty-one societies are included in the Deutscher Gabelsberger Stenographenbund, organized in 1868.

In the Prussian House of Deputies only the system of Stolze is used, and it is said that with one exception all the stenographers in the Upper House are Stolzeans, but in the diets of all the other German States the system of Gabelsberger is practiced. The corps of reporters of the German Reichstag consists of an equal number of Gabelsberger and Stolze writers.

From June 1, 1888, to May 31, 1889, 6,051 persons received instruction in Stolze's stenography. In 1887 the number of shorthand journals published in Germany was 76.

The following figures show the number of societies representing the several methods in Germany, with the membership of each, for the year ended June 30, 1889:

System.	Societies.	Members.
Gabelsberger	703	18,476
Neu-Stolze	383	9,354
Mittel-Stolze	43	1,023
Alt-Stolze	7	200
Arends	93	2,199
Roller	128	2,152
Faulmann	14	1,091
Lehmann tachygraphy	71	1,280
Schrey	43	709

There were 76 societies of college students, with a membership of 1,536, and 12 societies for women, having 308 members; also 3 military societies, with 189 members, which have afforded instruction to 1,656 soldiers.

GREECE.—Joseph Mindler, a German stenographer, adapted Gabelsberger's system to the Greek language in 1856, and was appointed stenographer to the Greek National Council at Athens. A shorthand society was organized by him at Patras in 1863. Blachos published a modification of Mindler's method. As early as 1853 Panos Heliopoulos had published a Greek system of shorthand, but it was very little practiced.

HUNGARY.—Istvan Gati is said by Dr. Zeibig to have practiced shorthand in taking down sermons from 1769 to 1772. His system was published in 1820. The English method of Taylor, translated by Borsos, was the first system used in Hungary. The systems of Gabelsberger and Stolze, adapted by Markovits and Fennyvessy respectively, have the largest following. The first was printed in 1863. Fennyvessy and Konyi, his pupil, were appointed chiefs of the stenographic bureau of Parliament. Gabelsberger's system was introduced into the high schools in 1879 and has been regularly taught since that time.

INDIA.—Shorthand is generally very little used in India. Three stenographers are appointed for service in the Parliament, one by the viceroy and one each by the Bengal and Indian governments.

ITALY.—Mr. Guiseppe Marzorati, chief stenographer in the Chamber of Deputies at Rome, says that stenography *per se* can hardly be said to exist in Italy, as, with the exception of Parliament, no other body makes use of it. It is not used in provincial or communal councils, neither in tribunals, on journals, or by private individuals. It is a very rare occurrence outside of Parliament for more than three or four addresses a year to be stenographically reported. Indeed, there is so little call for reporters that shorthand is very little taught as a branch of education. However, in a few government technical schools the Gabelsberger-Noë system of stenography is taught, but merely as an optional branch. There are also a few stenographic societies which give free instruction in the same system, and they have a good number of pupils. The reports of the Senate are made by the Michela machine; those of the Chamber of Deputies by stenographers. In order to obtain rapid work upon the machine much practice is required, and the question arises whether such a machine is of great use when so much can be done with the pen. There are 12 persons making use of this machine and 2 assistants. The two manage the machine; the others write off the matter in the ordinary way. Then there are 4 revisers and a director in charge. In the Chamber of Deputies the discussions are reported by the Taylor system, which has been adapted to the Italian language by the Amanti system, a modification from the method of Delpino. The stenographic bureau consists of the chief stenographer and 2 assistants, and there is five times as much work in the Cham-

ber of Deputies as in the Senate. There are 7 revisers and a reviser-in-chief.

There are seventeen societies in Italy devoted to the propagation of Gabelsberger's system, having a membership of 560.

A phonographic society, devoted to the propagation of Isaac Pitman's shorthand, was organized at Rome in 1883.

JAPAN.—Minamoto Koki, after years of study, invented a system of shorthand for the Japanese language and began teaching it as early as 1879. Upon the return from Europe in the summer of 1890, of Mr. Kaneko Kentaro, chief secretary of the House of Peers, the Japanese Government resolved to organize an official system of shorthand writing. Fourteen stenographers were found to be needed in each house, and students of Minamoto were employed. Verbatim reports of the proceedings in each house appeared every morning at 6 o'clock in the Official Gazette. Two chief stenographers of the two houses are Messrs. Wakabayashi and Hayashi. A writer in the Japan Mail says:

The stenographic records of the Diet will, in all probability, bridge over the gulf that separates the written from the spoken language, thus conferring on literary Japan the immense boon of being able to record its thoughts in the phraseology of their conception.

MEXICO.—Bustamente published a text-book on stenography in 1855, but the method has no following: Marti's system is used by the stenographers in the Congress, and one of them, Rafael Lozados, brought out a modification of that style in 1870. The proceedings of the Congress were reported by a corps of three stenographers in 1822, Manuel Altamiran being the chief. Two stenographers are now employed in the Senate and ten in the Chamber of Deputies.

NETHERLANDS.—The following statement in reference to the use of shorthand in the Netherlands has been furnished by Mr. Cornelis Anthonius Steger, the director of the Stenographic Institute of the States-General. Mr. Steger celebrated the fortieth anniversary of his service as chief parliamentary stenographer, on February 15, 1889, on which occasion many tokens of appreciation were bestowed upon him by the King and Government. He is an officer of the order of the Open Crown and also a knight of the Order of the Lion of the Netherlands.

The first system of stenography was introduced by J. Reijner, a merchant of Rotterdam, in the year 1673, and six years later J. Gosens van Helderer, of Amsterdam, edited a "Kort-Schrift-Boek," both methods very much resembling Shelton's English stenography. Then followed B. Mowick (1750), J. Bossuyt (1814), who translated the system of Conen de Prépean, P. G. Witsen Geysbeek (1827), who adapted the okygraphy of Dr. Erdmann, H. Somerhausen, J. Bossaert (1829), and P. Bogaert (1830). All these systems proved failures and have never been practiced.

The first and the second chambers of the States-General are reported by an official stenographic bureau composed of a director-stenographer

and of 12 stenographers. There are 2 pupil stenographers. The yearly expense amounts to about \$12,000. The director, Mr. Steger, has given public instruction in the art each year since 1870, but on account of the few opportunities to use shorthand to pecuniary advantage stenography has up to this time made little progress. The system belongs to the geometric school and was composed by H. L. Tetar van Elven about 1855 and completed by his pupil, Steger, who was the first professional stenographer in the Netherlands, and who published the method in 1867 and in 1888. Mr. Steger has also published a history of shorthand (1873, second edition 1888). Mr. Werst, a pupil of Mr. Steger, teaches shorthand at the commercial school of Amsterdam. Adaptations of the systems of Neu-Stolze by a Mr. Wéry, a German, of that of Isaac Pitman, and of those of Gabelsberger and Stolze combined by Capt. Gondschaal, a German stenographer, have appeared. In 1869 Mr. J. B. Rietstap translated the system of Gabelsberger. In 1881 the Alt Stolze stenography was translated by Reinbold and Brand von Straaten. In 1882 a "Commercial Stenography" was issued by Mr. Dekker.

Only the system of Van Elven-Steger is practiced in the parliament; the other systems have some adherents, but none has yet given practical results. No shorthand journal is published and no shorthand societies, strictly speaking, exist. Shorthand is not used in the assemblies of the States Provincial nor in courts of justice. The reporters for the press usually employ a system of abbreviated longhand and do not prepare verbatim reports.

NORWAY.—Herr Cappelen, chief parliamentary shorthand writer at Christiania, Norway, writes:

We use here the system of Gabelsberger exclusively, which I introduced in 1867. Every year a public course in shorthand, lasting five months, is given free of charge. The class usually consists of from 50 to 60 pupils, but only about 10 take the official examination. The text-book used is one arranged by me and one of my colleagues. Stenography is not taught in schools, except in the Academy of Commerce in Christiania, where the study is optional. Private courses have been given at different times in other cities. Christiania has formed a society of stenographers whose members were or are stenographers of the National Congress (Storthinget). This society has about 25 members, and is the only stenographic association in Norway. No shorthand journal is published, although one has been suggested. The stenographic corps of the Storthinget consists of 3 revisers, 8 stenographers, and 8 assistant stenographers, all of whom use the system of Gabelsberger. The sessions usually last four hours, and one stenographer and his assistant write together for a quarter of an hour at a time, after which the matter is dictated. When the manuscript has been read by the revisers it is sent to the printers, and the following day it is sent to me for revision, appearing one day later in the papers. When the Chamber and the Senate are both in session, the work requires more time because the same corps of stenographers does all the writing.

PORTUGAL.—The first shorthand system published in Portugal was that of Antonio Patrizio Pinto Rodriguez, issued early in the present century, but the art was comparatively little used before 1822, when

Angelo Ramon Marti began to report the proceedings of the Cortes. The system used was that of the elder Marti, and it has continued to be used both in the Senate and Chamber of Deputies. Joaquin Machado published an adaptation of Taylor's system, Dulunha e Silva issued a method of his own invention, and Dr. Michaelis adapted the system of Stolze to the Portuguese, but aside from its official use in Parliament, shorthand is very little practiced in Portugal.

PRINCE EDWARD ISLAND.—W. H. Crosskill gave instruction during the year 1889-'90 to 22 persons in the Benn Pitman system. The shorthand field is reported to be small, but interest in the art is increasing yearly.

ROUMANIA.—A. Stoenescu translated the system of Gabelsberger, published a monthly magazine, and was given charge of reporting the proceedings of the Senate and Chamber of Deputies at Bucharest. An adaptation of the French system of Tondeur is reported to be most largely used.

RUSSIA.—Baron von Wolke issued the first system of stenography in Russia about the end of the last century. Many other systems were afterwards brought out, but none were successful in gaining popularity. In 1864 translations of Gabelsberger were issued by Olchin and also by Tornauw and Zeibig, and a translation of Stolze by Paulson and Messer appeared soon afterward. This was in response to an offer of a reward of 1,500 rubles made by the ministry of education for the best treatise on stenography, which was divided between the two systems of Gabelsberger and Stolze.

SCOTLAND.—Shorthand is extensively taught in board and secondary schools and by shorthand associations. One teacher of phonography in Glasgow is said to give instruction to nearly a thousand persons each year.

In Scotland laws authorizing the employment of stenographers in divorce cases were passed in 1861, and in 1866 their service was authorized in all civil cases in the court of session. By the act of 1868 evidence in cases of jury trials might by consent be reported by a shorthand writer, and the privilege is frequently availed of.

SERVIA.—Milovuc published a translation of Stolze's system into the Servian in 1866, and another was issued by Djordjevic in 1867. In 1876, when a Parliament was formed for the Kingdom of Servia, an official was sent to Austria to learn stenography and adapt it to the Servian. He studied Gabelsberger's system at Vienna, and after his return to Belgrade gave instruction, four of his students being employed as stenographers in the Senate.

SPAIN.—Both the systems of Francisco de Pauli Marti and of Pedro Garriga y Marill have a considerable following in Spain. Marti first brought out an adaptation of the English method of Samuel Taylor (1786) which was published in 1800, and afterwards an improved system, of which editions appeared in 1803, 1813, 1821, and 1824. In 1802

the Government established at Madrid an institution for disseminating the art, and Marti was appointed teacher at a salary of 10,000 pesetas per annum. His first class consisted of 175 persons. Upon his death, in 1827, he was succeeded by Manuel Eugenio Vela. Angelo Ramon Marti adapted his father's system to the Portuguese and Italian languages. Alvarez Guerra issued an adaptation of Taylor's system, in parts, from 1797 to 1813, but his work attracted little attention. A system based on that of Marti was published by Xaramillo in 1811. Vela published Marti's system in 1845, and works on a similar basis were issued by Sotomayor, Zamácola, Villasenor, Lopez, Bas, and others. On Vela's death, in 1853, his chair was taken by Francisco de Paulo Madrazo, who taught the art until 1868; upon his decease the Instituto de San Isidro assumed the task of instruction. Francisco Serra y Ginesta, a pupil of Marti in 1803, who began to teach shorthand in the Junta de Comercio at Barcelona in 1805, issued a modification of his master's method in 1816. He was succeeded as instructor by José Andren. The system of Marti-Serra was propagated by the Sociedad Económica Barcelonesa de Amigos del Pais, and a number of works based upon it have been printed from time to time.

The system of Garriga, which appeared in 1864, is based on the method of Marti-Serra, as was to be expected, Garriga having been a pupil of Andren. The meaning of the alphabetic signs is changed, however, and the system in practice resembles very little that of Marti. A society for the propagation of this style of shorthand was founded, in 1872, under the name of the Corporacion Taquigrafica del Sistema Garriga. José Balari y Jovany, a pupil and friend of Garriga, became instructor for the Diputacion Provincial in the following year.

Gabelsberger's, Stolze's, and Duployé's systems have been adapted to the Spanish language and are used to a limited extent.

There are twelve stenographers in the Senate at Madrid and sixteen in the Congreso de Diputados. The salaries paid vary from 10,000 to 3,000 pesetas per annum.

SWEDEN.—Carl Keventer, of Westervik, writes that shorthand has made great progress in his country, the systems of Gabelsberger and Arends being principally used. The two chambers of Parliament are stenographically reported, thirteen persons being employed in one (all using the system of Gabelsberger) and twenty-one in the other (eighteen of whom use the system of Gabelsberger and three that of Arends). The salary paid each is from 10 to 12 crowns a day, with a gratuity of 200 crowns, making the annual income of each from 1,200 to 1,400 crowns. There are two shorthand associations each in Stockholm, Göteborg, Upsala, Lund, and Örebro; and one at Malmö, Norrköping, Skara, Kalmar, Kristinehamn, Vexjö, Westervik, Östersund, Asken-sund, Fritsla, Hallsberg, Garpenberg, and Falköping. The total membership in these associations is about six hundred. Two magazines are published—Sleipner, the organ of the Gabelsberger stenography,

and Hermes, the organ for the Arends system. About two thousand four hundred persons were taught shorthand in 1890, the most of whom studied Gabelsberger. Instruction is given in schools in Stockholm, Upsala, Göteborg, Örebro, Vexjö, Landskrona, Kristinehamn, Norrköping, Sundsvall, and Skara.

The proceedings of the Ridderhus were first stenographically reported in 1823 by Silferstolpe and Hjerta, the former of whom, in order to secure a reward from the Government, had adopted the system of Taylor as published in France by Bertin; the latter, a system based on those of Aimé-Paris, Conen de Prépéan and Lichtlein. The system of Stolze has been adapted to the Swedish and published at Stockholm.

SWITZERLAND.—In reference to stenography in Switzerland Mr. Aug. Rouiller-Leuba writes that stenography is not practiced to the same extent there that it is in some other countries, although in this branch Switzerland outranks several European nations. The system promulgated by the Swiss Central Stenographic Society is that of Aimé-Paris (Conen de Prépéan, Aimé-Paris and L. P. Guénin), that of the Abbe Duployé having been thrown aside as being of no particular advantage to the pupil, and indeed being especially inconvenient in many ways. Courses are organized regularly at Neuchâtel, Chaux de Fonds, Locle, St. Imier, Tramelau, Bienne, Noiraigue, Lausanne, Geneva, Cressier, and Bulle. There are also private courses, as to which no reports are received. The instruction given by M. Rouiller-Leuba at the Academy in Neuchâtel is under Government auspices. The question of introducing stenography in the schools is at present under discussion, and a report made by M. Rouiller-Leuba, to the Department of Education of the Canton of Neuchâtel, in regard to this matter, has been favorably received, and it is hoped will eventually cause that branch to be placed on the school programmes.

The stenographic literature of the canton is not very complete. The short method for French stenography, third edition (*Petite méthode de Sténographie française*, 3^{me} éd.), the stenography of the future (*L'Avenir Sténographique*), a monthly journal approved and recommended by the department of education, and the manual for reading (*Manuel de lecture*), which is just going through the press, represent about all there is in the matter of stenographic literature. French stenographic publications are also used in the academy. As for those practicing stenography, they are few in numbers as compared with that guild in the United States. There are few official stenographers, and in commerce and industry the employment of a stenographer is a rare event. There are in French Switzerland a few amateurs, students of the Duployé system, who are scattered throughout the divisions under Catholic domination. These make themselves heard, but in great measure where they have failed in their profession. In German Switzerland several systems are employed, namely: Stolze, Gabelsberger, Faulmann, Arends, and Schrey. Other systems do not seem to be in

use. The literature of the Stolze system seems to be of the greatest importance, both in number of students and in point of practice; and the Stolze school gains many adherents throughout German Switzerland. Societies for this system are numerous, and a total of one thousand members is reported. Two journals for this Stolze system are published: The Swiss Stenographic Journal (*Der Schweizer Stenograph*) and the illustrated Swiss Comic Journal (*Illustriertes schw. Unterhaltungsblatt*). The Gabelsberger system publishes only one journal, and the other systems are propagated by means of journals issued in other countries.

Maj. Caspar Suter, stenographer of the Swiss military department, has furnished the following statement:

At the close of 1889 the number of shorthand societies in Switzerland using the system of Stolze was 24, with 823 members; Gabelsberger, 10, with 205 members; Arends, 3, with 49 members; and Schrey, 5, with 120 members.

The Stolze Stenographic Society, Zürich, was the first stenographical society founded in Switzerland. November 15, the same year, it was followed by the society in Aaran; May, 1858, by that of Berne. The first stenographic society in Switzerland which adopted the Gabelsberger system was founded in Zürich, 1863, but it consisted largely of the polytechnical students of Zürich. On June 25, 1871, the Gabelsberger Stenographical Society was established in eastern Switzerland in Wyl, canton St. Gall, which on June 9, 1872, was extended to a Swiss Central Society of the Gabelsberger system.

According to the calculations of the Stolze Stenographical Society in 1884, 2,462 stenographers then living in Switzerland employed ten different systems. Of this number, 1,941 belonged to the new Stolze school, 25 to the old Stolze school, 450 to the Gabelsberger, 27 to the Arends school. The other systems were represented as follows: Adler, 6; Lehmann, 7; Faulman, 2; Pitman, 1; Duployé, 2; Roller, 1.

Of the above-named 2,462 stenographers, 594 are teachers, 624 students, 132 officials, 466 merchants, 127 trades people, 30 agriculturists, 16 physicians and apothecaries, 14 engineers and geometricians, 29 attorneys, 19 ministers, 9 editors, 26 technical engineers, 52 post telegraph and railroad officials, 44 printers and lithographers, 12 workmen in manufactories, 165 scholars of the *Secunda*, and finally 2 professional stenographers.

Stenography has not yet been introduced in the higher educational institutions of the French and Italian districts of Switzerland. In the cantonal school at Pruntrut a trial was evidently made in 1878, but this course of study was soon dropped on account of "insufficient interest and perseverance of the pupils."

The German portion of Switzerland presents more satisfactory figures, as follows: 29 schools with 5,800 pupils, 1,560 becoming experts.

From 1859 to 1876 about 4,250 persons received instruction in Switzerland in the Stolze system, and from 1872 to 1889 about 2,380 persons in the system of Gabelsberger. In Switzerland the use of stenography for transcribing purposes, was introduced in the beginning of this century. As some of the earliest instances when stenography was applied in Switzerland are cited the speeches which were taken down in the Senate and the great council at the end of the year 1798, by the renowned statesman and writer Zschakki. Also the celebrated sermons of the Zurich Chorherr, Conrad Orelli, who died 1826, were taken verbatim. Rev. Jaggi made use of stenography in 1835 for the discussions of the Berner Great Council. Prof. Einecken from 1830 to 1840 made use of stenography in the following instances: For several discussions of the great council in Luzern and for discussions of the same jurisdiction in the session of September 9, 1842, in which the important question was dis-

cussed of the call of the Jesuits to take charge of the higher educational institutes in Luzern. Stenography was further practiced by the State counsellor of Zurich, Mr. Benz, who reported the discussions of the "Eidgenössische" session in 1832, and during the greater part of the decade 1830 to 1840, the discussions of the Zurich Great Council, for the proprietors of the *Neue Züricher Zeitung*.

From 1830 until the present time the discussions of the Berner Great Council have been recorded by a German and a French stenographer, and are published in the "Tagblatt" of the Berner Great Council.

Stenography has also been used in the following instances: In 1844, by Krause in taking down the speeches and the toasts offered during the great shooting club festival at Bâle; in 1862 (after Stolze system) the discussions of the Great Council in Argovie; in 1863, the discussions of the Great Council in Zurich relating to the Cantonal house insurance companies, and, in September and December, 1864, the discussions of the Swiss states council, relating to the commercial treaty with France. In 1868 the discussions of the Constitutional Council were reproduced for the New Zurich paper by 4 stenographers, and in 1870, the discussions of the Swiss Federal Conventions relating to the St. Gotthard railroad contract, and, in 1878, the discussions of the same jurisdiction, relating to the additional subvention of the St. Gotthard railroad enterprise, by five stenographers. Prof. Kollbrunner, from 1871 to 1874 reported the discussions of separate sessions of the Swiss Federal convention for the Thurgavie newspaper. Since 1876 stenography has been in constant use at the Swiss military department for the verbatim rendering of the discussions held at conferences and for copying from dictations of the chiefs at the military department. From 1876 to 1884 thirty-six larger and smaller works, by official commission, were executed by Swiss stenographers of the Gabelsberger system.

Text-books and other works on stenography have been issued in Switzerland to the number of more than a score. Three shorthand journals are now issued, *Die Stenogr. Blätter aus der Schweiz*, edited by Maj. Casp. Suter, in Berne; *Der Stenograph*, edited by Bär, a teacher in Zürich; also a journal issued by adherents of the Arends system, which began publication in July, 1890.

In reference to the Duployan system in Switzerland, Denis R. Perreault states that F. P. Bonabry, the president of the Club Sténographique de la Concorde, Fribourg, has taught shorthand for eleven years past to the Young Traders' Association, to the students of the university and others; that stenographers have been employed in the Confederation Parliament for only one year, two of whom report the proceedings in German and one in French, the latter using the Duployan method; also that there are three or four journals devoted to this system issued, the most important being "*Le Signal Sténographique*," published by Louis Mogeon, at Ouchy.

TURKEY.—Shorthand is very little used in Turkey, and no manual of the art has been published. A stenographic bureau was organized by the Grand Vizier to report the proceedings of the Imperial Ottoman Parliament formed in 1876. Public instruction was given, and Mr. Bontini was appointed president of the parliamentary staff at a salary of 22,000 piasters for the session. The proceedings were published in the official journals, *El Djewaib* and the *Vâkit*. Difficulties were encountered because of the recognition of several languages, and the cost of the stenographic reports was proportionally increased.

VENEZUELA.—Marti's Spanish system was introduced into Venezuela by Chaquel. A reprint of Marti's text-book was issued at Caracas and

a manual was afterwards published by Geronimo A. Blanco. Shorthand is taught in the Colegio de Vargas and graduates report the proceedings of the Congress.

SHORTHAND IN THE UNITED STATES.

Systems of stenography resembling the earliest English methods were used in America almost contemporaneously with their publication, but no text-book was brought out until after the United States had become established as a republic. Gurney's and Taylor's systems were principally used, and the art was taught to a limited extent. At the time of the introduction of phonography Gould's treatises, based on Taylor's stenography, were the best known works on the art. The debates of the First Congress of the United States were reported unofficially by Thomas Lloyd. These were published in 1791 and were followed by reports made by other stenographers and privately printed. Up to 1848 the Congressional Globe published weekly an abstract of debates and such speeches as were furnished by members of Congress. From that time until 1873 the reports were published in the Daily Globe, and since then in the Congressional Record. In 1873 the former arrangements for reporting were changed so as to provide five reporters of the House of Representatives, and the reporting of the Senate is done by contract, the same number of stenographers being employed. All use some modification of phonography.

In 1844 Stephen Pearl Andrews published "The Phonographic Class Book," embodying the principles of Isaac Pitman's system, and the following year in conjunction with Augustus French Boyle began the extensive publication of text-books presenting the same method. Sixteen editions each were printed of the Class Book and the Reader within ten years, and other books designed to conduct the student to verbatim reporting were prepared and published. The issue of this excellent and complete series of text-books was the means of introducing the system to thousands of persons.

In January, 1846, Andrews and Boyle issued the first number of "The American Phonographic Journal," containing eight pages of engraved shorthand, and during that year the "Anglo-Saxon," a weekly newspaper printed in phonetic type and devoted to "the writing and printing reform," began to be issued by the same publishers. As an illustration of the rapid dissemination of the art it may be mentioned that in 1851 there were said to be 6,000 persons who had been taught phonography in Philadelphia.

The introduction of shorthand as a means of expediting business correspondence has taken place within fifteen years, and principally within the past decade, the increased use within five years being very marked. In the majority of the schools in which the art is now taught it has been introduced since 1885.

Statistics of 276 schools and classes in which shorthand was taught in the year 1882, were published in "The teaching, practice, and literature of shorthand," issued as Circular of Information No. 2, 1884, of the U. S. Bureau of Education. According to these figures a grand total of 12,470 persons received instruction during the twelve months specified, of which number 10,197 persons (6,032 males and 2,904 females, the sex of 1,261 being unreported) were taught orally and 2,273 by mail. A subsequent table gave data in reference to the introduction of shorthand in 23 schools and classes in which 264 students were instructed.

To obtain the information contained in the following tables 11,000 circulars have been sent out and a very large personal correspondence conducted. It has been necessary to devote many months in learning, from all available sources, the addresses of teachers of the art and in awaiting their responses, which in the case of voluntary statistics such as these are often received only after personal and repeated requests have been made. The tables show that from July 1, 1889, to June 30, 1890, 57,375 persons received instruction in shorthand. Of this number, 23,325 males and 26,005 females (the sex of 817 being unreported) were taught in schools and classes; 7,228 by mail. Of the students by correspondence 3,744 were males and 3,208 females, the sex of 276 not being stated in the returns.

In the subsequent table statistics are given in reference to 229 schools and classes in which shorthand was introduced during the scholastic year ended June 30, 1891. The number of persons taught orally was 4,150, which with those instructed by mail, makes a grand total of 4,738. Of the former class 2,474 were males and 1,658 females. The sex of a considerable number was not indicated by the reports sent in.

Statistics of instruction in shorthand in the United

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
ALABAMA.											
1	Athens	Athens Female College.	Miss Alma Porter.	1	0	5					5
2	Birmingham....	Birmingham Business College.	Edgar C. Wingfield	1	4	6	3				13
3	Livingston	Alabama Normal College for Girls.	Samuel Blinkhorn.	1		25	3				28
4	Mobile.....	Private instruction ..	Miss Mary E. Deasy.	1	2	6					8
5	do	St. Mary's Select School.	Sister of Charity..	1		50					50
6	Montgomery....	Private instruction ..	Fred. S. Ball	1	2			2	1		5
7	do	do	O. W. Stebbins....	1			6		1		7
8	Tuscumbia	Desler Institute	Maggie Rice	1	1	2					3
9	do	High School	Geo. L. Guy.....	1	19	6					25
10	Tuscaloosa	Tuscaloosa Female College.	Miss Dominique ..	1		10					10
ARIZONA.											
11	Phoenix.....	Private instruction ..	W. H. Robinson...	1	2	2					4
ARKANSAS.											
12	Fort Smith	Fort Smith Commercial College.	Samuel C. Neale ..	1	14	15	3	4			36
13	Harrisburg	Private instruction ..	G. W. Bullinger...	1					18	2	20
14	Little Rock.....	Little Rock Commercial College.	M. A. Stone	2	40	28	10	6			84
15	do	St. Paul's school of St. Mary's Female Academy.	Srs. M. Paula and M. Antonia.	4	1	10				2	13
CALIFORNIA.											
16	Eureka	Eureka Academy and Business College.	W. J. McClean....	1	18	8				2	28
17	Fresno	Young Men's Christian Association.	Miss Frances M. Robinson.	1			5	5			10
18	Irvington.....	College of Commerce of the Pacific.	Geo. H. Stipp	1	6	4					10
19	do	Washington College.	do	1	3	2					5
20	Los Angeles....	Longley Institute of Shorthand.	Elias Longley	2	30	20	6		1		57
21	do	Los Angeles Business College.	Miss May Hughs.	1							
22	do	Miss Cooper's School.	Miss L. L. Cooper.	1			1	6			7
23	do	Woodbury's Business College.	Mrs. S. F. Stevenson.	3	35	113					148
24	Oakland	Depue & Aydelotte's Business College.	Miss Genevieve White.	2	7	22					29
25	do	Oakland Business College.	Katie Pfluger.....	1	8	17	1				26
26	do	Pacific Press Evening Classes, Pacific Press Publishing Co.	L. A. Phippeny ...	1			10	15			25

States for the scholastic year ended June 30, 1890.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1887	10	Benn Pitman's phonography.	Hammond (1)	20 weeks..	40	\$4 per month.....	1
Jan. 1, 1890	25	McKee's shorthand.	do	3 months .	52	\$8 per month.....	2
Mar., 1890	28	Benn Pitman's phonography.	Remington . . . . .	.....	39	No extra charge to day students; night students, \$1 for 5 lessons.	3
1886.....	25	Munson's phonography.	do	4 to 6 mos. ....	.....	\$5 per month.....	4
Sept., 1889	50	Pernin's shorthand.	.....	6 weeks...	39	.....	5
June, 1889	15	Benn Pitman's phonography.	Remington . . . . .	.....	52	50 cents per hour .	6
May, 1890	7	Pernin's shorthand.	Remington, Caligraph, and Yost.	3 months .	52	\$22.50.....	7
Sept., 1889	3	do	Remington	5 months .	40	\$4 per month.....	8
Sept. 10, 1889	25	Benn Pitman's phonography.	Hammond (1)	20 weeks..	48	Free	9
1888.....	15	Graham's and Isaac Pitman's phonography.	Remington (1) ...	9 months .	36	\$50 per course . . .	10
.....	.....	Longley's phonography.	Remington	6 months . . . .	.....	50 cents per lesson.	11
Jan. 2, 1888	67	do	Remington (4), Caligraph (2), Yost (1).	8 months..	52	\$40 for course.....	12
1888.....	20	Benn Pitman's phonography.	.....	3 months..	.....	\$25.....	13
Sept., 1883	.....	do	Remington and Caligraph (9).	6 months..	52	\$50 for course.....	14
Sept. 1, 1887	20	do	Remington	10 months .	40	\$50.....	15
Aug., 1889	26	Lindsley's tachygraphy.	Caligraph (1), Remington (1), Yost (1).	6 months..	40	\$10 per month	16
Jan. 1, 1890	10	Benn Pitman's phonography.	Caligraph (1)	6 months..	.....	50 cents per lesson	17
Aug. 1, 1889	10	Scott-Browne's phonography, modified.	Remington (1), Caligraph (1).	10 months .	40	\$35 for 5 months ..	18
do	5	do	Remington and Caligraph.	10 months .	40	\$35 for 5 months; typewriting, \$20	19
1885.....	.....	Longley's phonography.	Remington and Yost (6).	6 months..	52	\$100 full course, 3 branches.	20
About 1887..	.....	Benn Pitman's phonography.	Remington (2) ...	6 months..	.....	\$50 for 6 months ..	21
Dec. 1, 1889	7	Longley's phonography.	Remington	3 months..	.....	\$25.....	22
Sept., 1888	218	Cross's shorthand	Remington (6) ...	5 to 8 mos. .	52	\$10 per month	23
Aug., 1887	140	do	Remington, Caligraph, and Smith.	6 to 12 mos. .	52	\$50 for 6 months ..	24
May 1, 1889	35	Isaac Pitman's and Munson's phonography.	Remington and Caligraph.	6 to 8 mos. ....	.....	\$8 per month	25
June, 1889	.....	Pernin's shorthand.	Remington	20 lessons. ....	.....	.....	26

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	CALIFORNIA—continued.										
27	Oakland	Private instruction ..	L. F. Cockroft	1	5	7					12
28	do	St. Mary's College ...	Christian Brother.	1	35						35
29	Pomona.....	Private instruction..	Emma K. Guild ..	1	2	4					6
30	Sacramento	Bainbridge Business College, 1017 J street.	Miss E. M. Stockmann.	2	6	26	3	1			36
31	do	Moynahan's Business College.	J. D. Moynahan...	1	10	20	5	7			42
32	Sanders.....	Private instruction..	W. A. Sanders	1	6	6					12
33	San Francisco ..	Eames School of Light-line Shorthand, Barnard's Business College.	Roscoe L. Eames ..	2	18	43	29	6			96
34	do	Benn Pitman Shorthand Parlors.	Jas. Robson	1			4	3			7
35	do	Commercial High School (school department of San Francisco), Towell street.	Mary T. Conway and Leila Richards.	2	130	156					286
36	do	Heald's Business College.	Harry W. Cadman ..	3							*260
37	do	Shorthand and Typewriting Exchange, 320 Sansome street, private instruction.	G. H. Hawes	1	1	3					4
38	do	Remington Typewriter Agency, 3 and 5 Front street.	Advanced scholars ...		*1	*25					26
39	do	San Francisco Business College.	Kathreen L. Miller.	1	60	130	30	20			240
40	do	San Francisco Shorthand and Typewriting Institute.	Miss L. Dougherty	2							13
41	do	Stenographic Institute.	E. R. Ayres	2	14	62					76
42	do	Young Men's Christian Association, twentieth street branch.	Ebenezer Knowlton.	1			20				20
43	do	Pacific Shorthand Institute, Socratic School of Science.	Geo. H. Stipp	2	10	24			10	8	52
44	do		S. S. Rizer	1							
45	Santa Cruz	Gardner's Shorthand and Typewriting Institute, Chesnutwood's Business College.	W. M. Gardner....	1	18	13					31
46	Santa Rosa	Santa Rosa Business College.	M. E. Rigby	1	23	17					40
47	Stockton.....	School of Stenography, Stockton Business College.	F. E. Cook	1	20	45					65
48	Woodland	Woodland Business College.	N. B. Osborne	4	7	7	1				15
49	Yreka	Yreka Business College.	J. S. Osborne.....	1	6	2	2				10

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1884.....	12	Lindsley's tachygraphy.	Caligraph.....	50 lessons.....		\$1.25 per lesson...	27
Aug. 20, 1889	30	Graham's phonography.	Caligraph (9).....	3 years ...	42	Free	28
Mar. 15, 1890	6	Lindsley's tachygraphy.	Remington (1) ...	3 months..		\$25.....	29
Oct. 3, 1887	108	Cross's shorthand.	Remington (3), Caligraph (3).	6 months..	52	\$50 for 6 months ..	30
May, 1887	100	Isaac Pitman's phonography.	Hammond	6 months..	52	\$50.....	31
1878.....	*100	Benn Pitman's phonography.	.....	.....	.....	.....	32
Jan., 1884	163	Eames's shorthand.	Remington (3) ...	4 to 8 mos.		\$10 per month.....	33
June, 1888	13	Benn Pitman's phonography.	Remington	6 to 8 mos.	52	\$7 per month	34
Jan., 1886	*1,000	Cross's shorthand	Remington (15), Smith Premier (20).	2 years.....	42	.....	35
1862.....	.....	do	Remington (7), Caligraph (7), Yost (4), Smith Premier (1).	.....	52	\$65 for 6 months ..	36
.....	.....	Scott-Browne's phonography.	Remington (3) ...	.....		\$1.50 per lesson ...	37
1885.....	*200	Stenograph	Remington (6) ...	Average 4 months	50	Shorthand, \$25; typewriting, \$10.	38
Oct., 1888	.....	Benn Pitman's phonography.	Remington, Caligraph, and Yost (10).	6 to 12 mos	50	\$12.50 per month..	39
Apr. 1, 1890	13	do	Remington (2) ...	6 months ..	42	\$50.....	40
Aug., 1889	76	do	Remington (3) and Yost.	5 months ..	52	\$10 per month	41
Oct., 1889	20	Marsh's phonography.	Caligraph and Remington.	44 weeks..	22	Membership in association.	42
1888.....	.....	Scott-Browne's phonography, modified.	Remington (2) ...	4 to 6 mos.	52	\$10 per month	43
1879.....	.....	Longley's phonography.	.....	30 lessons.....		\$25.....	44
May 27, 1889	40	Benn Pitman's phonography.	Remington (3) ...	6 months ..	52	\$42 for 6 months ..	45
July 27, 1888	50	Benn Pitman's phonography.	Caligraph (2)	6 to 8 mos.	40	\$50 per year.....	46
1884.....	400	Cross's shorthand.	Remington (3), Caligraph (3).	6 months..	52	\$75 per year.....	47
Feb., 1887	45	Benn Pitman's phonography.	Remington (1), Caligraph (2), Yost (1).	10 months.	40	\$60.	48
Mar. 17, 1890	10	Longley's phonography.	Yost (1)	6 and 12 months.	48	\$10 per month; \$35 per course.	49

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
COLORADO.											
50	Colorado Springs	Private instruction ..	Alice W. Baker...	1	1	13	1				15
51	Denver	College of the Sacred Heart.	F. X. Kowald, S. J.	1	24						24
52	do	Denver Business College.	Annie Troy	3	11	36	18	5			60
53	do	Denver Telegraph College.	Frank Joy	2	22	15	16	6			59
54	do	University Shorthand College, University of Denver.	Jay M. Lind	4	27	123					150
55	do	Woodworth's Shorthand College.	Wm. A. Woodworth.	4	80	110	50	5	2		247
56	Greeley	Greeley Business College.	Joseph Lyman....	2	12	16	11	3			42
57	do	Private instruction ..	John S. Adams ...	1							7
58	do	do	A. B. Chestnut....	1			1	6			7
59	Holyoke	do	A. M. Woodford ..	1	4	9					13
60	Loveland	Loveland Academy..	W. H. McCreery ..	1	1	11					12
61	do	Eclectic Shorthand School. Law & Moore's Commercial College.	J. W. Law	2	18	12					30
62	do	Pueblo Business College. ^a	Wm. R. Samuel ...	2	7	15	2	3	1	6	34
63	Pueblo	Pueblo Collegiate Institute.	P. C. Bryce	1	3	7					10
64	Trinidad	Trinidad Business College.	H. L. L. Anderson.	1	5	1	2	1			9
CONNECTICUT.											
65	Bridgeport	Bridgeport School of Shorthand and Typewriting. Bridgeport Business College.	F. G. Fowler, Fred. Enos.	3	1	1	1	1			4
66	do	Martin's Shorthand School.	W. J. Martin	1	40	20	20	30	2	2	114
67	Hartford	Hannum's Hartford Business College.	T. W. Hannum....	1	4	20	3				27
68	do	Huntsinger's Shorthand School, Huntsinger's Business College.	Mrs. E. M. Huntsinger.	2	10	24					34
69	do	Public High School..	W. C. Graham	1	10	20					30
70	do	Robertson's Shorthand School.	John Robertson...	1-2							
71	do	Young Men's Christian Association.	Willard C. Gompf.	1							
72	Middletown	High school	J. B. Riddle	1			13		1		14
73	New Britain	Private instruction..	G. J. Turnbull				1	6			7

^a In 1891 Isaac F. Myers gave instruction to 66 persons, including 1 by mail, teaching Benn Pitman's and Graham's phonography.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept. 25, 1888	20	Benn Pitman's phonography.	Remington (2) ...	6 months...	.....	\$10 and \$15 per month.	50
Dec., 1887	33	Thornton's phonography.	Caligraph.....	10 months..	42	\$5 per month; \$24 per year.	51
Aug. 1, 1889	70	Graham's phonography.	Remington; Caligraph (5).	6 months..	52	\$50 for 6 months ..	52
Dec., 1887	168	Cross's shorthand.	Remington (2). Caligraph (4), Smith Premier (2), Hammond (1).	3 to 5 mos.	40	\$45.....	53
1888	350	do	Remington, Caligraph, and Smith Premier; total, 10.	5 months..	52	\$50.....	54
Sept. 1, 1889	190	Graham's phonography.	Caligraph (7), Remington (5), Yost (1).	6 months..	52	\$50 day and \$40 night, 6 months; or \$10 per month.	55
1885	150	Benn Pitman's phonography and Cross's shorthand.	Yost (1), Caligraph (1).	6 months..	46	\$10 per month	56
.....	7	Graham's phonography.	Yost.....	6 months..	.....	.....	57
June, 1890	7	do	Remington and Caligraph	.....	.....	50 cents per lesson	58
June 1, 1888	21	Benn Pitman's phonography.	Remington (1) ...	3 months ..	.....	\$12 per term	59
Sept., 1888	20	do	None	6 or 7 mos.	40	\$1 per week	60
Mar. 1, 1890	30	Cross's shorthand.	Yost, Smith	10 weeks to 1 year.	.....	\$30 for 10 weeks ..	61
July 10, 1887	52	Scovil's shorthand	Caligraph (2)	4 to 6 mos.	52	\$10 per month.....	62
Oct., 1889	11	Scott-Browne's phonography.	.....	2 years.....	40	.....	63
June 23, 1890	9	Cross's shorthand.	Hammond (1), Caligraph (1).	7 to 12 mos.	50	\$25 for 10 weeks ..	64
Sept. 2, 1882	200	Graham's and Benn Pitman's phonography.	Remington	6 months..	52	\$100	65
Aug. 6, 1887	225	Graham's phonography.	Caligraph (10), Remington (2), Yost (1).	6 months to 1 year.	.....	\$10 (day), \$5 (evening), per month.	66
1877	100	Lindsley's tachygraphy.	Caligraph (2)	3 to 9 mos.	* 43	\$35.....	67
Sept. 3, 1889	34	Munson's phonography.	Remington and Caligraph (4).	9 months..	46	\$26 for every 12 weeks.	68
Sept., 1888	60	Benn Pitman's phonography modified.	Remington (1) ...	8 months..	36	.....	69
.....	.....	Graham's phonography.	Remington (1), Caligraph (1).	6 to 12 mos.	52	\$10 per month	70
1886	50	Munson's phonography.	.....	.....	.....	.....	71
Nov., 1889	13	Lindsley's tachygraphy.	Remington	6 to 12 mos.	.....	.....	72
1882	*30	Munson's phonography.	do .....	.....	.....	\$10 for 12 lessons.	73

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
CONNECTICUT—continued.											
74	New Britain....	Sister Dora Society ..	Willard C. Gompf.	1							
75	do	Young Men's Christian Association.	do	1			10				10
76	New Haven.....	Barnes's Shorthand and Typewriting School.	Theodore Isham ..	2	33	49	21	7	8	10	128
77	do	Cargill's Business College.	Miss Susan W. Allen.	1		10	5	6			21
78	do	Hogarth's Business University.	Miss Mary E. Holmes.	1	1	19					20
79	do	Private instruction ..	Chas. H. Meigs....	1			3	1			4
80	do	Yale Business College.	Joseph E. Platt...	2	25	21					46
81	New London....	New London Business College.	R. A. Brubeck....	1			10	13			23
82	North Lyme....	Private instruction ..	Rev. John G. Ward	1	1	5				2	8
83	Norwalk.....	Connecticut Commercial College.	Mrs. Frank H. Ruscoe.	4	29	34	58	49			170
84	Norwich.....	Snell Business College.	A. R. Birchard....	2	5	21	2	4		1	33
85	do	Young Men's Christian Association.	Geo. E. Parsons...	1			12				12
86	Rockville.....	Private instruction ..	Paul C. F. Hoffman.	1			12				12
87	Suffield	Connecticut Literary Institution.	Susie E. Pomeroy.								10
88	Waterbury	Gaffey's Shorthand School.	Helen L. Mattoon.	1	6	20	4	7	17	10	64
89	do	Private instruction ..	C. W. Loomis.....	1			25	35	*275	*175	*510
DELAWARE.											
90	Clayton.....	Clayton School of Shorthand and Typewriting.	James G. Longfellow.	1			14		2		16
91	Smyrna.....	Smyrna Home School.	Herman Roe.....	1	3	3					6
92	Wilmington	Private instruction ..	C. R. Evans.....	1			4	2			6
93	do	School of Shorthand and Typewriting ; Goldey Wilmington Commercial College.	Miss A. Estella Morley, day sessions; Wm. J. Hume, night sessions.	3	14	34	16	9			73
DISTRICT OF COLUMBIA.											
94	Washington....	Academy of the Holy Cross.	Sisters of the Holy Cross.	1		20					20
95	do	Arlington Academy.	Burton Macafee, A. M., M. D.	2	7						7
96	do	Old Standard School of Phonography; Howard University (temporarily).	A. S. K. Ray	1	14						14
97	do	Private instruction for High School; high-school students.	C. A. Davis	1	25	25					50

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1889	8	Munson's phonography.					74
May, 1886	10	do				Membership in association.	75
Sept. 1, 1885	00	Munson's and Graham's phonography.	Caligraph (6)	6 months day; 12 months evening.		\$10 per month (day). \$5 per month (evening).	76
1885	100	Cogswell's phonography.	Hammond (2)	6 to 12 mos.		\$25 for 3 months ..	77
1883	100	do	Caligraph (1), Remington (1), Hammond (1).	1 year		\$60 per year	78
1886	13	Benn Pitman's phonography.	Remington and Caligraph.	4 to 6 mos.		\$1 per lesson	79
Sept., 1887	*100	Munson's phonography.	Remington (7), Caligraph (1).	6 to 12 mos.		\$25 for 3 months or \$10 per month.	80
Sept., 1889	67	Benn Pitman's phonography modified.	Remington (1), Hammond.		36	\$25	81
Aug. 12, 1889	8	Benn Pitman's phonography.	None			\$5 for 25 lessons	82
Aug. 1885	170	Isaac Pitman's phonography.	National (1), Caligraph (1), Remington.	6 months	52	\$50 for 6 months, including books and stationery.	83
Oct., 1888	71	Benn Pitman's and Munson's phonography.	Remington, Caligraph, Smith (5).	4 to 6 mos.	48	\$45 for course	84
Nov., 1889		Munson's phonography.				Membership in association (\$2).	85
1886	12	Graham's phonography.	Caligraph	52 evenings		50 cents per lesson.	86
Dec. 1, 1889		Munson's phonography.		1 year	38	\$36 per year	87
Sept. 1, 1878	26	Cogswell's phonography.	Remington (2)	6 to 8 mos.	52	\$10 per month	88
Oct. 1, 1889	1,000 to 1,200	Benn Pitman's phonography.	Caligraph, Remington, Hammond.	3 to 6 mos.	52	\$1.25 per lesson	89
1884	14	do	Hammond (2)	6 months	25	\$5 per month	90
Dec., 1889	20	do	None	1 year	40	\$40 full course	91
Oct. 1, 1886	6	do	do			\$3 per month; 2 lessons weekly.	92
1886		do	Remington (5), Caligraph (1).	4 to 6 mos.	44	\$35 for 3 months	93
1880	50	do	Remington (1)	20 weeks	40	\$10	94
Apr. 15, 1890		Munson's phonography.			40	\$80 to \$100 for school year.	95
Dec. 15, 1890	14	Benn Pitman's phonography.	None	6 months	22	\$12 per scholastic year.	96
	50	do		8 months	36	Free	97

for the scholastic year ended June 30, 1890—Continued 3

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1884 <i>a</i>	<i>a</i> 26	Eames's shorthand	.....	.....	.....	\$5 for 10 private or 20 class lessons.	98
Sept., 1889	10	Mulvey's shorthand.	Remington (7) ...	.....	40	\$1 per month.....	99
1872.....	360	Graham's phonography.	Smith.....	3 years....	42	No extra charge for shorthand.	100
Dec., 1886	262	Benn Pitman's phonography and the stenograph.	Remington (5), Caligraph (1).	6 to 9 mos.	52	\$12 for 3 mos.....	101
May, 1889	61	Benn Pitman's and Graham's phonography.	Remington (6) ...	5 months..	52	\$10 per month; \$25 for 3 months.	102
Oct. 1, 1889	99	Benn Pitman's and Graham's phonography.	Remington	2 years....	25	Membership in association.	103
1884 <i>a</i>	<i>a</i> 24	Eames's shorthand.	.....	2 years....	25	Membership in association (\$6).	104
Feb., 1890	14	Benn Pitman's phonography.	Caligraph.....	.....	52	\$5 per term of 12 lessons.	105
Dec., 1889	4	Isaac Pitman's phonography.	Remington (1), Smith (1).	.....	.....	.....	106
Sept. 3, 1889	20	Longley's phonography.	Remington (1), Caligraph (1).	30 weeks..	48	\$5 per term of 10 weeks.	107
1887.....	200 to 300.	Munson's phonography.	Caligraph, Remington, and Hammond (9).	3 to 6 mos.	52	\$50 for 3 months ..	108
Jan. 1, 1890	8	Graham's phonography.	Remington (1) ...	2 years....	40	None	109
Oct., 1889	12	Munson's phonography.	Remington	6 months..	50	\$50.....	110
.....	80	Graham's phonography.	Yost (3).....	.....	.....	\$50 for 60 lessons..	111
1889.....	11	Benn Pitman's phonography.	Caligraph and Remington.	4 to 5 mos. ....	.....	\$25 first month, \$5 per month afterwards.	112
May, 1889	* 77	Munson's phonography.	Remington	4 months .	52	\$5 per week.....	113
Nov., 1889	20	Graham's phonography.	None	5 months .	.....	Free to members of association.	114
1886.....	60	Burnz's phonography.	Caligraph	6 months .	44	\$5 per month.....	115
Sept. 10, 1888	55	Benn Pitman's, Munson's, and Longley's phonography and Cross's shorthand.	Caligraph (2), Remington (1), Premier (1), Yost (2).	3 to 5 mos.	38	Stenographic course, \$30; typewriting course, \$20.	116
July, 1889	5	Benn Pitman's phonography.	Remington .....	.....	.....	\$5 for 10 lessons...	117
1890.....	6	Graham's phonography.	.....	6 months	36	.....	118
Apr., 1890	2	Pitman's phonography.	.....	.....	.....	.....	119
1880.....	.....	Longley's phonography.	Remington (12) ..	6 to 12 mos.	36	\$100 for complete course.	120
Sept., 1889	40	do	Remington .....	.....	40	Free.....	121

a These figures refer to Eames's shorthand only.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
GEORGIA—cont'd.											
122	Rome.....	Craigmiles' College of Shorthand and Typewriting.	E. L. Craigmiles ..	1	9	3	8				21
123	Savannah	Commercial Institute.	C. S. Richmond ...	2	*15	*15	14	6			*50
124	Thomasville....	Private instruction .	R. R. Downs.....	1	10						10
125	do	Thomasville Stenographic School.	A. W. Ball.....	1	5	10	2	4		2	23
126	Washington....	St. Josephs' Academy.	Sisters of St. Joseph.	3							
127	Waycross	Private instruction..	E. H. Reed.....	1	11	1					12
IDAHO.											
128	Boise	Capital City Commercial College.	H. G. Healy.....	1	12	6					18
129	Nampa	Private instruction..	Thos. Wilson	1							
ILLINOIS.											
130	Albion.....	School of Phonography, Albion Normal University.	D. Nevins.....	1	6						6
131	Aurora	Aurora Shorthand School.	Miss J. G. Palmer.	1	*16	*34	8	7			*65
132	do	School of Eclectic Shorthand and Typewriting, Jennings Seminary.	Miss Frances H. North.	1	9	11					
133	do	Wilson's Evening School.	James Wilson	1			15	3			18
134	Belleville	Private instruction..	D. S. Elliott.....	1			8	2			10
135	Bloomington....	do	Clara A. Graves ..	1	1	8	3				12
136	Bunker Hill	do	Rev. Francis H. Zabel, D. D.	1							
137	Cairo	do	Harlow Davidson.	1	*7	*18					*25
138	do	do	Mary A. Stewart..	1			2	1		2	5
139	Cambridge.....	do	Mrs. Jas. Keagy ..	1	5	3					8
140	Canton	Canton Commercial College.	G. W. Miner	1	1	9					10
141	Carbondale	Mrs. Moore's Shorthand Institute.	Mrs. Emma R. Moore.	1	4	5					9
142	do	Sloan-Duployan Shorthand Institute, Southern Illinois Normal University.	W. O. Melton.....	2	29	20			24	10	83
143	Carthage	Carthage College	Emily F. Andres..	1	2	3					5
144	Chicago (Haymarket Theater Building.)	Brown & Holland Shorthand Institute.	Dan Brown	3	44	96	56	14	3	12	225
145	Chicago.....	Bryant and Stratton's Business College.	Chas. T. Platt	4	*50	*200	*30	*30			*310
146	do	Central College of Eclectic Shorthand.	J. G. Cross	4	31	84	24	9	29	17	194
147	do	Chicago Athenæum..	Charles R. Barrett.	4	68	193	21	38			320
148	do	Chicago Business College.	W. T. Adkins	3	30	170	25	50			275
149	do	Jones' Business College.	Mrs. J. B. Hargrave and C. E. Jones.	4	23	54	17	43			137

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Mar. 17, 1890	21	Benn Pitman's phonography.	Remington (3)...	6 months	52	\$12 per month	122
1884.....	*1,200	Munson's phonography.	Remington (6 to 8).	...do	52	\$30 per quarter for day; \$25 for night lessons.	123
June, 1890	10	Benn Pitman's phonography.	.....	.....	.....	Free	124
June 1, 1889	21	...do	Hammond and Remington.	3 months	52	\$5 per month	125
Sept., 1887	12	Isaac Pitman's phonography.	Remington .....	.....	.....	\$1 per month	126
Aug. 1, 1889	12	Benn Pitman's phonography.	...do	3 months	.....	\$20 for full course.	127
Apr., 1890	.....	Graham's phonography.	Caligraph (3), Remington (2).	.....	.....	\$12.....	128
Jan., 1885	50	Benn Pitman's phonography.	Remington.	6 to 12 mos.	.....	\$50.....	129
Mar. 1, 1890	6	Longley's phonography.	Remington (1)...	20 weeks..	48	80 cents a week...	130
Sept. 1, 1884	200	Cross's shorthand.	Remington (4)...	4 months..	48	\$40 for 4 months ..	131
1887.....	.....	...do	Remington (1)...	4 months or less.	40	\$36.50 for course	132
Apr., 1888	30	Benn Pitman's phonography.	.....	3 to 6 mos.	26	\$15 for 3 months ..	133
.....	.....	Bishop's phonography.	.....	1 year, 1 lesson per week.	.....	50 cents per lesson.	134
Oct., 1889	12	Lindsley's tachygraphy.	Remington (1)...	3 months..	.....	\$25 for 3 months ..	135
Mar., 1885	4	Benn Pitman's phonography.	Caligraph (1) .....	.....	.....	.....	136
1889.....	*25	Sloan-Duployan shorthand.	Remington (1) .....	.....	.....	.....	137
1888.....	24	...do	Remington	3 months..	.....	\$20 for course.....	138
1889.....	8	Cross's shorthand.	Caligraph.....	3 to 5 mos.	.....	\$30 in class	139
Sept., 1889	25	...do	Remington (1)...	5 months..	48	\$25.....	140
Sept., 1889	*100	Sloan-Duployan shorthand.	Hammond and Remington.	4 months..	.....	...do	141
Sept. 10, 1888	76	...do	Remington .....	.....	38	\$30 per term of 3 months.	142
Sept., 1889	5	Cross's shorthand.	...do	12 weeks..	37	\$30 for course.....	143
1874.....	4,500	Benn Pitman's phonography.	Remington (4)...	4 to 6 mos.	.....	\$55 for 6 months, or \$12 per month.	144
.....	.....	Graham's phonography.	Remington (50) ..	6 months..	52	\$65 for 6 months...	145
Apr., 1885	.....	Cross's shorthand.	Remington .....	.....	52	\$60 for scholarship, \$25 per month.	146
1873.....	(a)	Munson's phonography.	Remington (16), Caligraph (1).	4 to 6 mos.	49	\$90 a year	147
1885.....	425	Benn Pitman's phonography.	Remington (8), Caligraph (9).	6 months..	52	\$50 for 6 months ..	148
June, 1889	.....	Graham's and Benn Pitman's phonography and stenograph.	Remington (8), Caligraph (8).	.....	48	\$58 for 24 weeks ..	149

a Several thousand.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	ILLINOIS—cont'd.										
150	Chicago	Kimball's Training School.	D. Kimball.....	1	16	52	17	2			87
151	do	Metropolitan Business College.	James Russell Price.	3	52	606	16	20			694
152	do	Mrs. Coleson's Shorthand School, McVicker's Theater Building.	Mrs. A. M. L. Coleson.	3	6	244	15	35	3	22	325
153	do	Nelson's Business College.	Miss Amy Scranton.	1	4	1					5
154	do	Pitman & Munson's Shorthand School.	W. A. Marr	1					30	10	40
155	do	Private instruction..	Geo. W. Emery ...	1	100						100
156	do	Private instruction..	Mrs. A. F. Rodgers	2	36	61	21	84			202
157	do	South Side Shorthand and Typewriting.	Miss Laura B. Cristman.	1		110		40			150
158	do	St. Patrick's Commercial Academy.	Brother Baldwin..	4	125						125
159	do	West Side Business College.	M. G. Kimmel	1	20	100	10	15			145
160	do	Young Men's Christian Association (Madison Street Department).	Dan Brown	1			*50				50
161	Decatur	Decatur Business College.	Miss Minnie Van Horn.	1	11	44	3	4			62
162	Dixon	Dixon Business University.	C. A. Steinman....	3	59	49	3	2	*75	*75	*263
163	do	Northern Illinois College of Shorthand and Typewriting. Northern Illinois Normal School.	A. H. Beaver.....	2	24	36			10	5	75
164	Elgin	Private instruction ..	Emma Cole.....	1				3			3
165	do	Northern Hospital. Private instruction.	William C. Pike..	1	5						5
166	Enfield	Southern Illinois College.	J. L. Hughey	2	6	7					13
167	Englewood	Mrs. Judd's Shorthand School.	Mrs. F. F. Judd...	1		15	5	8			28
168	Freeport.....	School of Shorthand, Freeport College of Commerce.	A. G. Matter.....	2	2	10					12
169	Galesburg	Business College	J. G. Cross.....	2							12
170	Jacksonville	Jacksonville Business College.	Mrs. Elizabeth Askew Davis.	2	24	41					65
171	Joliet	Joliet Business College and Shorthand Institute.	H. Russell.....	2	25	50					75
172	do	Private instruction ..	Geo. Hingston....	1	3	8					11
173	do	Squier's Business College.	L. H. Squier	2	42	65	14	6	53	29	209
174	do	Young Mens' Christian Association.	Geo. Hingston	1			10				10
175	Kinmundy.....	Rutherford's Shorthand Institute.	Geo. W. Rutherford.	2	11	4					15
176	La Salle	Private instruction..	Geo. W. Patterson.	1			12	7	1		20

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept. 1, 1884	387	Lindsley's tachygraphy.	Remington (4), Caligraph (3), Hammond (1).	2 to 5 mos.	52	\$12 per month, \$30 for 3 months.	150
1876.....	3, 568	Munson's phonography.	Remington (24), Caligraph (10), Hammond (3), Yost (2).	5 months..	52	\$100.....	151
Feb. 12, 1881	2, 000	Benn Pitman's phonography.	Caligraph and Remington (from 12 to 20).	12 to 14 weeks.	52	\$25 per month	152
Oct., 1889	5	do	Remington and Caligraph.	4 to 6 mos.	52	\$30 for 4 months ..	153
May 1, 1888	250	Munson's, Benn Pitman's, and Scott-Browne's phonography.	Remington (1), Caligraph (2).	3 to 8 mos.	52	50 cents single lesson, \$10 per month, mail course \$10.	154
1881.....	100	Benn Pitman's phonography.	Remington	4 to 6 mos.	.....	\$150 to \$200	155
Sept. 1, 1887	350	Pernin's shorthand.	Remington (1), Caligraph (1), Yost (1), Hammond (1).	3 months..	51	\$10 per month	156
May, 1889	150	Graham's phonography.	Caligraph (1)	5 months..	52	\$12 per month.....	157
1883.....	*700	do	Hammond (3)....	3 to 4 years.	40	\$1.50, \$2, and \$3 per month.	158
1878.....	.....	Munson's phonography.	Remington and Caligraph (12).	4 to 6 mos.	52	\$90 per annum	159
.....	.....	Benn Pitman's phonography.	Remington .....	.....	25	Free	160
.....	.....	.....do	Remington (3), Caligraph (1).	.....	.....	\$30 for 12 weeks; \$50 for 24 weeks.	161
Sept. 1, 1882	*500	Cross's shorthand.	Remington (6 to 8).	3 to 5 mos.	50	Shorthand \$30; typewriting \$15.	162
1881.....	450	do	Remington and Hammond.	3 to 6 mos.	50	\$40 for full course in shorthand and typewriting.	163
Nov., 1889	3	Lindsley's tachygraphy.	.....	4 to 6 mos.	.....	50 cents per lesson.	164
July, 1882	37	Benn Pitman's phonography.	.....	.....	.....	Voluntary	165
1888.....	13	Isaac Pitman's phonography.	Caligraph (1)	10 months.	40	\$6 for 10 months ..	166
1889.....	.....	Munson's phonography.	Remington (4)...	5 months..	.....	\$10 per month.....	167
1888.....	21	Graham's phonography.	Caligraph (2)	6 months..	52	\$40 for 6 months ..	168
Apr. 10, 1890	12	Cross's shorthand.	.....	10 lessons .	.....	\$10.....	169
1883.....	.....	Benn Pitman's phonography.	Caligraph (3), Remington (3).	Until graduation.	.....	\$30 for 12 weeks, \$50 for 24 weeks.	170
1865.....	1, 000	Graham's phonography and Cross's shorthand.	Remington	6 months .	50	\$60.....	171
.....	*20	Munson's phonography.	Remington (1)...	.....	.....	\$25.....	172
Aug. 14, 1889	127	Cross's shorthand.	Hammond and Remington.	3 to 8 mos.	52	\$7 per month	173
.....	.....	Munson's phonography.	(None).....	.....	.....	.....	174
Mar. 1, 1887	30	Lindsley's tachygraphy.	Remington and Crandell.	3 to 5 mos.	40	\$6 per month.....	175
.....	.....	Cross's shorthand.	Remington .....	.....	.....	.....	176

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	ILLINOIS—cont'd.										
177	Lebanon	McKendree College .	R. E. Tyner	2			10	20	1	2	33
178	Lincoln	Phonograph Insti- tute. The Lincoln Business College.	Fredrika W. Meloy	1	8	4					12
179	Mattoon	Private instruction..	H. O. Joseph	1	7						7
180	Mt. Morris	Mt. Morris Business College.	Miss Jennie Richie	1	10	7					17
181	Normal	Illinois State Normal University.									
182	Naperville	Northwestern Busi- ness College.	J. L. Nichols	3							22
183	Nauvoo	St. Mary's Academy	Miss Clara E. Hoeveler.	3						3	3
184	Onarga	Grand Prairie Semi- nary and Commer- cial College.	N. L. Richmond...	1	5	8	1	1			15
185	Ottawa	St. Francis Xavier Academy.	Sister of Mercy...	1		5					5
186	Pana	Sacred Heart School.	Very Rev. F. Stick.	1		8					8
187	Peoria	Caldwell's School of Shorthand.	David Caldwell...	1	10	20	5	22			57
188	do	Instruction by mail .	Miss E. K. Hall...	1					(*25)		*25
189	do	Peoria Business Col- lege.	Miss Mary E. Rey- nolds.	1	8	43	3	7			61
190	do	Private instruction..	Chas. V. Oden.....	2			9	19			28
191	do	Private instruction..	Newton Woodson.	1	8	7	7	6			28
192	Quincy	Gem City Business College.	Miss Jessie Brown	1	5	25				5	35
193	do	Private instruction..	W. L. Howe.....	1			2	2	1		5
194	do	Quincy Shorthand and Typewriting School.	Jas. A. Philbrick..	3	12	28	7	3	4	6	60
195	do	St. Francis Solanus College.	Rev. P. Wallis- check, O. S. F.	2	13						13
196	Rochelle	Private instruction..	J. G. Cross.....	1							11
197	Rockford	Rockford Business College.	G. A. Winans.....	2	16	56	2	4			78
198	do	Private instruction..	J. R. Evans	1	3	9					12
199	do	do	Edward B. Wit- wer.	1			8	5			13
200	do	Rockford Academy..	Mrs. Mary L. Car- penter.	1	2	5	2				9
201	Sandwich.....	Private instruction..	M. R. D. Owings ..	1	3	7	2	7		1	20
202	Sparta.....	Sparta Public Schools	Ida E. Blackmore.	1	*8	*19					*25
203	Springfield	Springfield Business College.	Mrs. Grace Birkett	2							26

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1889	30	Sloan-Duployan shorthand.	Remington and Yost.	3 to 4 mos.	50	\$40.....	177
1884.....	80	Benn Pitman's phonography.	Remington (2)...	6 months	42	\$50 full course....	178
.....	7	do	Caligraph (1), Remington (1).	.....	.....	50 cents per lesson.	179
Jan., 1890	17	Longley's phonography.	Caligraph .....	.....	.....	.....	180
1888.....	6	Lindsley's tachygraphy.	Remington .....	.....	.....	\$5 for 9 weeks.....	181
1879.....	.....	do	Remington and Caligraph.	6 months	42	\$12.50 per term ...	182
1883.....	14	Kimball's tachygraphy, Graham's phonography, and Pernin's shorthand.	.....	3 months	40	\$38 for 3 months ..	183
1887.....	60	Longley's phonography.	Remington (1)...	8 months	40	\$33	184
Sept., 1888	7	Benn Pitman's phonography.	do .....	.....	40	\$14 for course in phonography and typewriting.	185
Sept., 1889	8	Benn Pitman's phonography.	.....	.....	36	No extra charge for shorthand.	186
1878.....	*200	Isaac Pitman's phonography.	Remington (2) ...	2 hours daily 4 to 6 months.	52	Class, 2 lessons per week, \$3.50 per month; private, 5 lessons per week, \$8 per month.	187
Oct., 1889	*25	Cross's shorthand.	.....	3 to 4 mos.	.....	\$15 for course.....	188
June 1, 1888	.....	Benn Pitman's phonography.	Remington (4), Caligraph (1).	6 months	42	\$30 for 12 weeks; \$50 for 24 weeks.	189
Sept. 1, 1887	73	Isaac Pitman's phonography.	Remington .....	.....	52	75 cents per lesson, \$6 per month.	190
Oct. 20, 1888	.....	Graham's, Benn Pitman's, and Scott-Browne's phonography.	Smith's Premier (1); Remington (7).	.....	.....	\$20 for 20 lessons ..	191
Sept., 1888	50	Graham's phonography.	Remington (5) ...	6 months	52	\$60.....	192
.....	.....	Isaac Pitman's, Benn Pitman's, and Graham's phonography.	Remington (1) ...	6 to 7 mos.	.....	\$10 per month.....	193
Jan. 20, 1890	60	Graham's phonography.	Caligraph (6)	5 months for an amanuensis.	52	\$65 for 5 months ..	194
1882.....	65	Longley's phonography.	Remington (2) ...	2 years.....	42	\$20.....	195
May 3, 1890	11	Cross's shorthand.	.....	10 lessons	.....	\$10.....	196
1883.....	300	Graham's phonography.	Caligraph (6), Remington (2).	6 months	52	\$40 for 6 months ..	197
Sept., 1887	23	Lindsley's tachygraphy.	Remington (4) ..	Average 5 months.	52	\$10 per month	198
Oct. 16, 1889	13	Graham's phonography.	Remington	50 lessons	.....	\$20.....	199
Sept., 1889	9	Lindsley's tachygraphy.	do	20 weeks..	40	\$32 for 40 weeks; \$16 for 20 weeks.	200
1888.....	.....	Cross's shorthand.	do	5 months	.....	\$12.....	201
.....	.....	Isaac Pitman's phonography.	do	4 to 6 mos.	.....	\$8 per month.....	202
.....	.....	Benn Pitman's phonography.	Remington (2), Caligraph (2).	24 to 40 weeks.	.....	\$50 for 24 weeks ..	203

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	ILLINOIS—cont'd.										
204	Sycamore.....	Private instruction..	J. G. Cross.....	1							10
205	Tentopolis.....	St. Joseph's Diocesan College.	Rev. Bro. Leopold Breuer.	2	9						9
206	Wenona	Corresponding School of Shorthand.	J. E. W. Morgan ..	2	1	1	12	6	17	25	62
207	Westfield.....	Westfield Business College (Westfield College.)	Miss Tressa Maxwell.	1							
208	Wheaton	Wheaton College	Miss Edith Jenks.	1	11	5					16
	INDIANA.										
209	Anderson.....	Anderson Shorthand School.	L. J. Weichmann .	1	12	6	1	1			20
210	Angola	Tri-State Normal College.	C. G. Phillips	2	25	15	3	1	1		45
211	Aurora	W. B. Stier's Night School.	W. B. Stier	1			1	5			6
212	Bloomington....	Private instruction..	Mrs. Annie E. H. Lemon.	1	5	1		1			7
213	Brazil	do	J. D. Strachan	1			2	4			6
214	Columbus	Columbus Normal School and Business Institute.	J. E. Polley	1	23	26	5	5			59
215	do	Private instruction..	R. F. Gottschalk ..	1			6	8			14
216	Covington	Indiana Normal College.	J. G. Evans	1	1	1					a 2
217	Crawfordsville .	Private instruction..	Mattie K. Keeney.	4	2	6	1				9
218	do	do	Wm. M. White ...	1	6	8					14
219	do	Young Men's Christian Association.	Wm. M. White ...	1							
220	Danville.....	Central Normal College.	A. M. Wagner	2					15	15	30
221	Elkhart.....	Middleton's Shorthand and Typewriting Institute.	William D. Middleton.	1	15	45					60
222	Evansville.....	School of Stenography and Typewriting.	Lillian Murfitt ...	4	8	42	18	4			72
223	Fort Wayne	Cathedral School	Bro. ———	1	20						20
224	do	Fort Wayne High School.	Wilson E. McDermutt.	1	10	7					17
225	do	Gabelsberger Stenographers Verein, Concordia College.	Members of Society.	5	100						100
226	do	McDermutt & Whiteleather's Business College.	Wilson E. McDermutt.	2	15	41	8	12			76
227	Frankfort	Minor's Shorthand College, Minor's Business College.	Mrs. Flora Minor .	2	17	19	8	6	12	11	73
228	Greencastle.....	St. Paul's Academy..	Sisters of Providence.			10					10
229	Hope	Normal and Commercial College.	J. W. Beck.....	1	13	11					24
230	Huntertown....	Private instruction..	T. F. Frech	1			5	4			9
231	Indianapolis....	National Shorthand Academy, National Business College.	L. A. Duthie.....	2	22	45	17	9			93

^a In 1890-91 a class of 4 males and 7 females was taught by Josephine Webb, Benn Pitman system.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
May 21, 1890	10	Cross's shorthand.	.....	10 lessons.	.....	\$10.....	204
Sept. 9, 1887	20	Benn Pitman's phonography.	Caligraph (1)	2 years....	40	\$20 per annum	205
Oct., 1888	67	do	Remington and Odell.	6 months....	.....	\$15 for 50 lessons by mail; \$12 for 50 lessons evening school.	206
Sept., 1888	*10	Cross's shorthand.	None	4 to 6 mos.	38	\$5 per month.....	207
.....do .....	.....	Benn Pitman's phonography.	Remington (1), Hammond (1).	.....	39	.....	208
Oct. 1, 1889	20	do	Remington (1), Caligraph (1).	1 year....	52	.....	209
Nov. 12, 1889	153	do	Caligraph (2), Remington (1).	7 to 9 mos.	30	\$13 per term	210
.....do .....	.....	.....do	Remington (1)...	6 months..	25	\$3.50 per month...	211
1887.....	20	do	Caligraph	90 lessons.	.....	\$10 for 30 lessons .	212
Sept., 1889	6	Graham's phonography.	.....	8 months..	.....	\$5 per month, for 12 lessons.....	213
Sept. 1, 1887	150	Benn Pitman's phonography.	.....	20 weeks..	48	\$8 for 10 weeks ...	214
Sept., 1888	16	do	Remington (2), Caligraph (1).	40 lessons, 3 hours each.	20	\$25.....	215
.....do	5	Lindsley's tachygraphy.	Remington	5 to 7½ mos.	48	\$1 per week, 5 lessons.	216
.....do .....	.....	Munson's phonography.	Caligraph	6 to 8 mos.	.....	\$25 for course.....	217
.....do .....	.....	.....do	Remington	3 months..	52	\$15.....	218
Nov., 1889	12	do .....	.....	20 lessons.	.....	None	219
1880.....	500	Longley's phonography.	Remington (1), Caligraph (1).	5 months..	48	\$12 for 5 months' course.	220
1888.....	74	Haven's phonography.	Remington (1), Caligraph (1).	12 weeks..	52	\$20.....	221
About 1875..	.....	Benn Pitman's phonography.	Remington (2), Caligraph (2).	6 to 8 mos.	52	\$12.50 per month..	222
Sept., 1886	40	Isaac Pitman's phonography.	Hammond (1)....	2 years....	40	No extra charge ..	223
Sept., 1888	31	Munson's phonography.	None	1 year....	40	do	224
1885.....	.....	Gabelsberger's stenography.	.....	.....	.....	Free.....	225
.....do	250	do	Caligraph (5)	6 months to 1 year.	46	\$35, 6 months; \$50, 1 year.	226
.....do	103	Graham's phonography, principally.	Remington and Caligraph.	6 to 9 mos.	52	\$30.....	227
Sept., 1889	10	Pernin's shorthand.	None .....	.....	42	No extra charge ..	228
1889.....	37	Cross's shorthand.	Caligraph	5 to 8 mos.	47	\$8 for 10 weeks ...	229
.....do .....	.....	Benn Pitman's phonography.	.....	30 lessons.	.....	\$5.....	230
Sept. 9, 1889	67	do	Caligraph, Remington, and Yost.	6 months .	52	\$30.....	231

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	INDIANA—cont'd.										
232	Indianapolis....	Private instruction..	Mrs. May Gable ..	2	40	135	15	35	.....	.....	225
233	do	School of shorthand, Indianapolis Business University.	E. J. Heeb	2	50	75	20	15	.....	.....	160
234	do	Shorthand school, Koerner's Business College.	S. H. East.....	1	31	73	7	7	.....	.....	118
235	Kokomo	Private instruction..	Jas. B. Covil	1	.....	.....	2	2	.....	.....	4
236	Lafayette.....	Union Business College.	A. O. Reser	2	12	17	.....	.....	.....	.....	29
237	Lawrenceburg..	Private instruction..	R. H. Colt.....	1	.....	2	.....	.....	.....	.....	2
238	Logansport.....	Hall's Business College.	C. F. Moore and C. L. Dilley.	2	20	13	1	1	.....	.....	35
239	Marion	Marion Normal College.	J. C. Roberts.....	1	8	4	.....	.....	.....	2	14
240	Mervin	Union Christian College, private class.	J. E. Miller	1	9	.....	.....	.....	.....	.....	9
241	Mitchell.....	Southern Indiana Normal College....	Ada Buckingham	1	*15	*35	.....	.....	.....	.....	*50
242	Mount Vernon .	Private instruction..	Mrs. Edwin S. Monroe.	.....	2	6	.....	.....	.....	.....	8
243	Moscow	do	C. E. Kinney.....	1	.....	1	5	.....	.....	.....	6
244	Newcastle.....	Jesse Bond's Practical Business Institute.	Jesse Bond	1	2	13	.....	.....	.....	.....	15
245	Noblesville	Private instruction..	Edward E. Neal ..	1	.....	.....	3	3	.....	.....	6
246	North Manches-ter.	North Manchester College.	F. O. Howe	1	10	8	1	.....	.....	.....	19
247	Notre Dame	University of Notre Dame.	Thomas A. Flood.	1	84	.....	.....	.....	.....	.....	84
248	Peru.....	Private instruction..	D. A. Roe.....	1	1	.....	4	5	.....	.....	10
249	do	do	Hallie L. McNeil .	1	.....	.....	6	4	.....	.....	10
250	Portland.....	do	Frank B. Jaqua ..	1	6	2	.....	.....	.....	.....	8
251	Richmond	do	Mrs. E. S. Myers..	3	6	26	4	.....	.....	.....	36
252	do	do	Mrs. F. M. Scott ..	1	27	16	.....	.....	15	13	71
253	do	Richmond Business College.	Rev. J. W. Kapp ..	2	30	50	.....	.....	.....	.....	80
254	do	Richmond School of Phonography.	Sue P. Owen.....	1	13	37	10	.....	.....	.....	60
255	do	Richmond School of Shorthand and Telegraphy.	Henry H. Grant ..	1	.....	3	.....	.....	.....	.....	3
256	Ridgeville.....	Ridgeville College ...	Rebecca Horn	1	10	15	.....	.....	.....	.....	25
257	Salem.....	Private instruction..	Eugene Hein	1	.....	.....	3	.....	.....	.....	3
258	Shoals	Phonographic Institute.	Rousseau High-tower.	1	3	1	2	.....	1	1	8
259	South Bend.....	Private instruction..	R. H. Hardman...	1	.....	.....	2	.....	1	.....	3
260	do	South Bend Commercial College.	W T. Boone.....	2	15	20	.....	.....	.....	.....	35

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1884 .....	.....	Benn Pitman's phonography.	Remington and Caligraph (7).	6 months	52	\$10 per month	232
About 1875	*800	Pitman's, or any leading system.	Remington, Caligraph, and Hammond (17).	do	52	\$12, 1 month; \$50, 6 months.	233
1882 .....	.....	Leading systems of phonography.	Remington (9) ..	do	52	\$10 per month; \$40, 6 months.	234
.....	.....	Munson's phonography.	.....	1 to 2 years	.....	\$25 to \$40	235
1883	about 200	do	Remington (6) ..	6 months	52	\$15 per quarter ...	236
.....	.....	Graham's phonography.	Remington .....	.....	.....	\$50 cents per lesson.	237
1885	175	Benn Pitman's phonography.	Caligraph and Remington (4).	6 months	.....	\$40 for 6 months ..	238
Oct., 1889	14	do	Remington	30 weeks	38	\$10 for term of 10 weeks.	239
About 1886	.....	do .....	.....	6 months	.....	\$6 to \$10 for 6 months.	240
Oct., 1888	*50	Cross's shorthand	Remington (4) ..	About 1 year.	47	\$46 per year	241
.....	.....	Benn Pitman's phonography.	Caligraph (1) ..	3 to 6 mos.	.....	\$10 per month	242
Jan., 1890	6	do .....	.....	About 5 months.	.....	50 cents per lesson	243
1886	15	do	Remington	12 weeks	46	\$25	244
Sept., 1887	*20	do	do .....	.....	.....	25 cents per hour	245
June, 1889	18	Cross's shorthand	Caligraph	20 to 50 weeks.	50	\$15 per course	246
About 1870.	Average 75 per year.	Isaac Pitman's, Benn Pitman's, Graham's, Longley's, and Munson's phonography.	Remington (5) ..	1 year	40	\$10 per session of 5 months.	247
Jan., 1888	19	Benn Pitman's phonography.	.....	.....	.....	50 cents per lesson	248
Feb., 1890	10	do	None .....	.....	.....	25 cents per lesson	249
1887 .....	.....	do	Remington (3) ..	6 to 10 months.	.....	25 cents per hour	250
Jan. 1, 1884	50	do	Caligraph and Remington.	4 to 6 mos.	52	\$10 per month	251
Apr., 1887	83	do	Remington	4 to 6 mos.	36	\$40	252
1883	120	Barnes's and Benn Pitman's phonography.	Remington (2), Caligraph (1).	6 months	52	\$10 per month	253
1885	125	Benn Pitman's phonography.	Remington	4 to 6 mos.	52	do	254
.....	3	do .....	.....	.....	52	\$10 per mo.; \$40 unlimited course.	255
Apr. 2, 1890	25	do	Remington (1), Caligraph (1).	30 weeks	50	\$10 for 10 weeks ..	256
.....	.....	do .....	.....	6 months	.....	\$25 for 6 months ..	257
Feb. 13, 1889	4	Benn Pitman's and Graham's phonography.	.....	4 months	.....	\$4 per month	258
July, 1889	3	Benn Pitman's phonography.	Caligraph (1) ..	6 to 9 mos.	.....	\$5 per month	259
Jan. 1, 1885	.....	Isaac Pitman's phonography, with supplementary work from all Pitmanic systems.	Remington (4) and Caligraph (1).	4 to 6 mos.	.....	\$40 for course	260

Statistics of instruction in shorthand in the United States

Estimates are indicated

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
INDIANA—cont'd.											
261	Sullivan	Private instruction..	A. D. Leach	1	2	1					3
262	Terre Haute.....	The Terre Haute Commercial College.	L. Merrell and K Hopewell.	2							*15
263	Summitville	Private instruction..	Thad. M. Moore ..		4	2					6
264	Valparaiso	Northern Indiana Normal School.	S. P. Corboy and W. S. Norviel.	4	160	132					292
265	Veray	Private instruction..	Mary A. Robenstein.	1		2					2
INDIAN TERRITORY.											
266	Westfield.....	Union High School ..	Ira C. Nicholison ..	1							
267	Atoka	Atoka Baptist Academy.	F. B. Smith	2			2				2
268	Edmond	Private instruction..	Rev. John H. Aughey.	1	5	3					8
269	McAlester, Choctaw Nation.	McAlester Presbyterian Academy.	E. H. Doyle	1	6	8					14
IOWA.											
270	Algona	Northern Iowa Normal School.	Chas. A. Cohe-nour.	1	8	9					17
271	Allison	Private instruction..	P. J. Leonard	1	16	4					20
272	Burlington	Elliott's Business College.	Mildred Riley	2							60
273	Cedar Rapids...	Cedar Rapids Business College.	Miss Maud Seely ..	1	15	34					49
274	Charles City....	Private instruction..	J. S. Barnhart.....	1		11					11
275	Clinton	Clinton Business College.	F. E. Hayes	2	30	50	18	12	2	5	117
276	Corning	Private instruction..	Ulysses G. Morrow	1	10	2	2	1	10	2	27
277	do	do	T. P. Bray	1			2		2		4
278	Council Bluffs ..	Chautauqua Class, Council Bluffs and Omaha Chautauqua.	Rev. P. S. Davies, Ph. D.	1	6	4			2		12
279	do	Western Iowa College.	W. S. Paulson.....	2	11	17	3	5			36
230	do	St. Francis Academy.	Sister M. Chionia ..	2		25					25
281	Creston.....	Shorthand Institute, Creston Business College.	Mrs. W. H. Barrett	2	20	36					56
282	Davenport.....	School of Shorthand, Iowa Commercial College.	B. C. Wood.....	2	28	76	3	5	2	17	131
283	Decorah	Valder Business College and Normal School.	F. M. Webster	3	11	15					26
284	Des Moines.....	Capital City School of Shorthand, Capital City Commercial College.	Carrie A. Clarke ..	3	40	119	6	6	1	2	174

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1884.....	13	Benn Pitman's and Moran's reporting style.	Caligraph	5 to 6 mos.		\$10 for 12 lessons ..	261
1879.....		Moran's phonography.	Remington and Caligraph (8).	4 to 6 mos.			262
Jan. 1, 1890	6	Benn Pitman's phonography.	Remington	do		\$30 for complete instruction.	263
1874.....	1,976	do	Remington (22), Caligraph (4).	40 weeks..	50	\$13 for 10 weeks ..	264
.....	15	do .....	.....	3 months ..		40 cents per lesson ..	265
1881.....	40	do .....	.....	....do			266
Sept., 1887	5	Lindsley's tachygraphy.	Caligraph (1) .....	.....	36	\$4 and \$5 per mo. ..	267
.....		Benn Pitman's phonography.	.....	.....		\$25	268
Sept., 1888	21	Sloan-Duployan shorthand.	Caligraph (3)	16 weeks..	40	\$15 per month	269
Sept. 20, 1889	17	Cross's shorthand.	Caligraph	6 months..	36	\$5 for 12 weeks ...	270
May, 1888	24	Benn Pitman's phonography.	Hall	1 year	36	\$15	271
.....		do	Hammond and Caligraph.	6 months..		\$25 for 3 months ..	272
Sept., 1886	*250	Graham's phonography.	Remington and Caligraph.	6 months ..	52	\$45 for 6 months ..	273
.....	16	Benn Pitman's phonography.	Hall	Partial course, 24 lessons ..		\$10 for 24 lessons ..	274
Feb. 9, 1887	350	Munson's phonography.	Remington (9) ...	6 months ..	42	\$45	275
1886.....	25	Graham's phonography.	Caligraph (1), Remington (1).	6 to 8 mos.		\$20 for course.....	276
.....		Graham's and Benn Pitman's phonography.	Caligraph	About 6 months ..		\$25 for course.....	277
July 2, 1890	12	Lindsley's tachygraphy.	None	3 weeks....		\$3 per scholar.....	278
1884.....	*130	Graham's phonography.	Remington (1), Caligraph (1).	4 to 12 mos	48	\$1 per week.....	279
Sept., 1889	25	Benn Pitman's phonography.	Remington .....	.....		\$3 per month.....	280
Dec., 1888	75	Benn Pitman's phonography; also the stenograph.	Remington (2), Yost (1); Caligraph (1.)	6 to 9 mos.	52	\$45.....	281
May 1, 1884	*800	Benn Pitman's phonography.	Remington (7)...	6 months ..	52	\$50 for full course, or \$10 per month.	282
July 1, 1887	74	Graham's phonography.	Remington (2)...	do	47	\$30 for 6 months stenography; \$4 per month for typewriting.	283
1884.....	*500	do	Remington (14)...	7 to 12 mos	52	\$45 for 6 months; \$65 per year.	284

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	IOWA—cont'd.										
285	Des Moines.....	Des Moines Short-hand Institute, Bowen Business College.	Miss M. S. Mercer.	1	3	7			1		11
286	do	School of Shorthand, Iowa Business College.	A. C. Jennings	2	26	41	3	4	1	2	77
287	do	High and Industrial School.	Clay D. Slinker ...	1	9	10	.....	.....	.....	1	20
288	Dexter	Dexter Normal College.	Wm. S. Butterbaugh.	.....	.....	.....	.....	.....	.....	.....	.....
289	Dubuque	School of Shorthand, Bayless Business College.	Julia A. Robinson.	3	12	24	1	1	1	.....	39
290	do	The Wyckoff School of Shorthand and English Training.	Mrs. J. H. Wyckoff.	1	2	18	7	2	.....	.....	29
291	Durant	Instruction by mail..	D. H. Snoke.....	1	5	20	.....	.....	.....	.....	25
292	Eldora	State Industrial School.	A. H. Leonard	1	6	.....	.....	.....	.....	.....	6
293	Epworth.....	Epworth Seminary ..	B. W. McClung ...	1	1	1	.....	.....	.....	.....	2
294	Fayette.....	Upper Iowa University.	E. E. Bissell	1	9	5	.....	.....	.....	.....	14
295	Fort Madison...	Private instruction ..	E. H. Reimbold ...	1	5	1	2	.....	3	1	12
296	do	do	W. C. Marsh.....	2	8	7	.....	.....	.....	.....	15
297	Garner	Northern Iowa Academy and Business College.	F. H. Worden.....	1	15	10	.....	.....	.....	.....	25
298	Grinnell.....	The V. F. Brown Shorthand School.	V. F. Brown	1	5	10	.....	.....	1	.....	16
299	Harlan	Private instruction ..	Laura B. Lupton ..	1	4	3	.....	.....	.....	.....	7
300	Hartley	do	Miss Emma A. Thomas.	1	2	1	1	2	1	.....	7
301	Hopkinton.....	Lenox College	Harry M. McKee ..	1	4	3	.....	.....	.....	.....	7
302	Humestown	Humestown Normal College.	J. R. Anderson ...	1	12	7	.....	.....	.....	.....	19
303	Indianola	Simpson College.....	R. A. McClure	1	3	2	.....	.....	.....	.....	5
304	Iowa City	University School of Shorthand.	J. E. Barnes	3	28	45	.....	.....	13	39	125
305	Kellogg	Iowa State School of Shorthand.	C. W. Faylor.....	.....	.....	.....	.....	.....	25	50	75
306	Keokuk	Gate City Business College.	L. A. Wyatt	3	15	17	7	3	.....	.....	42
307	Lamoni.....	Private instruction ..	Frank Stoddard ..	1	.....	.....	.....	.....	3	2	5
308	McGregor	St. Mary's Academy.	Sister Veturia	2	3	4	.....	.....	.....	.....	7
309	Marshalltown ..	Marshall Commercial College.	J. R. Anderson.....	1	.....	.....	.....	.....	.....	.....	30
310	Mason City.....	Mason City Business College.	C. P. Headington ..	3	2	18	.....	.....	.....	.....	20
311	Missouri Valley.	Private instruction ..	Rev. P. S. Davies..	1	3	1	.....	.....	1	1	6
312	Monticello.....	do	Miss M. J. Smith ..	1	1	4	.....	.....	.....	.....	5
313	Mount Vernon..	Cornell College	Blanche Swingley.	1	8	4	.....	.....	.....	.....	12

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
June 3, 1889	10	Cross's shorthand.	Remington (1)...	3 to 6 mos.		\$45 for 6 months; \$15 by mail.	285
Sept. 10, 1878	.....	do	Caligraph, Remington, Hammond, and Duplex (10).	6 months ..	48	\$45 for 6 months ..	286
Sept., 1889	19	Graham's phonography.	Remington (2)...	2 years ...	36	.....	287
March, 1889	34	Benn Pitman's phonography and Cross's shorthand.	Caligraph (2)	6 months ..	20	\$35.....	288
1882.....	200	Longley's phonography.	Remington	do	52	\$50.....	289
.....	a 25	Benn Pitman's phonography.	Remington (3), Caligraph (1).	do	(b)	\$50.....	290
1884.....	100	Benn Pitman's and Graham's phonography.	Caligraph .....	.....	.....	\$25 for course.	291
1886.....	*25	Moran's phonography.	Remington (2) ...	24 weeks..	24	Free	292
Sept., 1889	2	Cross's shorthand.	Remington (1) ...	1 year.....	36	\$7.....	293
1887.....	49	Benn Pitman's phonography.	Remington	6 to 9 mos.	36	\$24 for 3 months; \$5 for each additional month.	294
June 20, 1889	6	Lindsley's tachygraphy.	.....	.....	.....	\$12.....	295
May, 1885	*200	Benn Pitman's phonography.	Remington (1) ...	4 to 6 mos. ....	.....	\$8.....	296
Apr., 1888	25	Cross's shorthand.	Remington, Hammond, and Hall.	5 months ..	48	\$30	297
Sept. 5, 1889	15	Benn Pitman's phonography.	Remington and Smith.	.....	38	\$8 per month.....	298
.....	.....	Moran's phonography.	Remington and International.	.....	.....	50 cents per lesson.	299
Mar., 1890	.....	Cross's shorthand.	Remington and Caligraph.	2 months ..	.....	\$45.....	300
Sept., 1888	7	do	Remington	24 weeks..	37	\$15 per term	301
Nov. 6, 1888	29	Benn Pitman's phonography.	Remington (1), Caligraph (1).	5 months..	48	\$60.....	302
.....	.....	Graham's phonography.	Remington (1)...	6 months..	36	\$20.....	303
.....	.....	Benn Pitman's phonography.	Remington (4), Caligraph (1).	5 to 8 mos.	52	\$50.....	304
Aug., 1888	.....	Moran's phonography.	Remington	3 months to 2 years.	52	\$30.....	305
Oct. 1, 1889	32	Graham's phonography.	do	8 months..	50	\$40 for 6 months ..	306
.....	5	Benn Pitman's phonography.	None	About 6 months.	.....	\$5 for 15 lessons ..	307
1887.....	10	Benn Pitman's phonography and Cross's shorthand.	Remington (2)...	8 months to 1 year.	36	Free	308
1885.....	.....	Benn Pitman's phonography.	Caligraph and Remington.	6 to 8 mos.	52	\$40 for 6 months ..	309
Dec. 1, 1888	85	Graham's phonography.	Remington (1) ...	4½ months.	50	\$30 for 5 months ..	310
.....	.....	Lindsley's tachygraphy.	World .....	.....	.....	.....	311
.....	.....	do .....	.....	.....	.....	.....	312
.....	.....	Munson's phonography.	Caligraph (1)	6 to 9 mos.	36	\$12 in class, \$20 private lessons, per term.	313

a Yearly average.

b Sept. 15 to July 14.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	IOWA—cont'd.										
314	Muscatine	Muscatine Commercial College.	Mrs. Mary W. Winn.	1	5	5					10
315	Newton	Private instruction ..	Ella V. Hough	1			2		3	2	7
316	Osage	Gardner's School of Phonography.	Charles F. Gardner	2	4	6			3	7	20
317	do	School of Shorthand, Cedar Valley Seminary.	Galen F. Humbert.	1	9	6	8	3	12	7	45
318	Oskaloosa	Oskaloosa Business College.	Chas. J. Conner...	3	19	45			5	9	78
319	Ottumwa	Ottumwa Business College.	E. E. Gardner.....	1	8	11	4	2			25
320	Russell	Private instruction ..	Rev. C. W. Riches.	1			4	4			8
321	Shenandoah	Western College of Shorthand and Typewriting, Western Normal College.	W. T. Larimore...	4	45	55	40	8	30	20	198
322	Sioux City.....	Northwestern Business College.	Mrs. C. H. Clark ..	1							
323	Tabor	Private instruction ..	O. C. Gaston	1		1					1
324	do	Tabor College	C. L. Brill.....	1	8	7					15
325	Toledo.....	Western College.....	Luella S. Pickett..	1	14	5	2	5	2	1	29
326	Vinton.....	Tilford Academy. Private instruction.	Mrs. E. L. Newton.	1	2	1					3
327	Waterloo	East Waterloo High School.	Miss Sara R. Beem.	1	4	6					10
328	do	Waterloo Collegiate Institute and Commercial College.	C. A. Peddicord ...	1	14	19	4				37
329	Wilton Junction.	Norton Normal and Scientific Academy.	Chas. P. Lang.....	1	4	3			3		10
	KANSAS.										
330	Atchison	Atchison Business College.	E. N. Draper and A. F. Heck.	2	11	28	1	5			44
331	do	Private instruction ..	W. H. Lewis	1				5			5
332	Belleville	Frank A. Bush's School of Shorthand.	Frank A. Bush ...	1			12	20	30	45	107
333	Colley	Private instruction ..	F. J. Casterline ...	1							
334	Columbus.....	do	Carrie A. Knapp..	1			4	14			18
335	Concordia.....	Nazareth Academy ..	Sister Mary Eugenie.	2	8						8
336	Council Grove ..	Council Grove Shorthand School.	T. B. Haslam.....	1			7				7
337	Elk Falls	McKesson's Shorthand Class.	Rev. C. L. McKesson.	1		1	10	3	1		a 15
338	Emporia.....	State Normal School.	J. N. Wilkinson ..		2	2					4

a Pupils at Southern Kansas Normal, Langton, Kans., are included in these figures.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1886	40	Benn Pitman's phonography.	Remington (1) ...	7 to 12 mos.	52	\$40 full course	314
.....	.....	Graham's phonography.	Remington; also 1 Caligraph.	6 to 12 mos.	50	40 cents per lesson.	315
1870	150	Graham and Benn Pitman's phonography and Cross's shorthand.	Remington	6 months .....	.....	\$50 full course	316
Nov. 1, 1889	26	Benn Pitman's and Graham's phonography.	Caligraph.....	do	52	\$30 shorthand; \$12 typewriting, 3 months.	317
Sept. 1, 1884	about 300	Isaac Pitman's phonography.	Remington (6) ...	do	50	\$50.....	318
Aug., 1888	32	Cross's shorthand.	Hammond, Remington, and Caligraph.	do	53	\$25 for 3 months; \$40 for 6 months.	319
May 1, 1890	8	Graham's phonography.	Hammond (1)	30 weeks..	.....	\$10.....	320
Sept. 1, 1885	500	Cross's shorthand.	Remington, Caligraph, and Hammond (15).	6 months ..	53	\$35 for 3 months; \$50 for 6 months.	321
.....	.....	Sloan-Duployan shorthand.	Caligraph and Remington (3).	3 months	53	\$30.....	322
.....	.....	Graham's phonography.	Remington (1) ...	.....	.....	.....	323
Jan. 8, 1890	15	Lindsley's tachygraphy.	Caligraph (1)	6 months ..	37	\$30... ..	324
1889	30	Pitman's phonography.	Remington	6 to 9 mos.	37	\$35 and \$45.....	325
1887	15	Moran's and Benn Pitman's phonography.	Caligraph, Remington, Hall, and Yost.	6 months ..	36	\$35.....	326
Sept., 1889	10	Pernin's shorthand.	Remington	6 to 9 mos.	36	Free	327
1886	51	Benn Pitman's phonography.	Remington (2), Caligraph (1).	30 weeks..	50	\$10 for term of 10 weeks; \$25 for three terms.	328
.....	7	do	Remington (1) ...	30 weeks..	30	\$1 per week for those attending academy; \$1.50 for outsiders.	329
1885 .....	.....	Scott-Browne's phonography.	Caligraph (1), Remington (1).	6 to 9 mos.	41	\$10, 1 month; \$25, 3 months; \$40, 6 months; \$50, 9 months.	330
Mar., 1889	5	Cross's shorthand.	Remington (1)...	4 months ..	.....	\$5 for twelve lessons.	331
Jan. 1, 1887	.....	Moran's phonography.	.....	.....	.....	\$20 for course.....	332
Jan. 1, 1888	8	Benn Pitman's phonography.	Caligraph.....	About 6 months.	.....	50 cents per lesson.	333
Dec. 16, 1889	18	do	Caligraph and Remington.	6 months ..	.....	\$5 per month.....	334
Sept., 1889	12	Lindsley's tachygraphy.	World	4 months ..	40	.....	335
Dec., 1888	6	Isaac Pitman's phonography.	None	60 lessons.	52	\$5 per term.....	336
May 10, 1889	14	Benn Pitman's phonography.	Caligraph.....	6 months ..	.....	16 $\frac{2}{3}$ cents per lesson; 50 cents per week.	337
1889	4	Graham's phonography.	Hammond (1)....	Lifetime..	.....	Free	338

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	KANSAS—cont'd.										
339	Eureka	School of Shorthand ..	R. H. Cook	2	3	1	3		5	1	13
340	Fort Scott	Kansas Normal College.	Wm. Schaumburg	1	4	2					6
341	do	Private instruction ..	Mrs. Ella D. Gates	1	1	2					3
342	Garden City	Garden City Business College	G. W. Dix	3	25	75			4	8	112
343	do	Private instruction ..	S. E. Wikoff	1		4	3				7
344	Garnett	do	Frank L. Brown ..	1			2	4			6
345	Great Bend	do	Geo. Crummack ..				4	2			6
346	do	Shorthand Institute, Central Normal College.	Alma Moulton	2	10	15			2	5	32
347	Harper	Harper Normal School and Business College.	James Miles, jr . . .	1							
348	Herington	Private instruction ..	T. J. Pearson	1	4	1					5
349	Hiawatha	Hiawatha Academy, private instruction.	R. T. Herrick	1	3	2					5
350	Holton	Campbell University.	C. L. Barrett	1			6	10			16
351	Howard	Private instruction ..	Mrs. Hall	1	7	2					9
352	Hutchinson	Shorthand Institute, Kansas Normal University.	Mrs. M. A. Smedley.	1	19	21	4	3			47
353	Kinsley	Private instruction ..	A. C. Dyer	1	1	4					5
354	Lawrence	Lawrence Business College.	Wilbur M. Hayes.	2	21	40					61
355	Leavenworth ...	Central Business College.	W. L. Musick	1	10	35	8	4			57
356	do	College of Correspondence, Central Business College.	C. E. Evans	1					37	23	60
357	do	Private instruction ..	Olney B. Stuart ..	1			4	4			8
358	do	do	N. E. Van Tuyl ..	1	3	2					5
359	do	Vanderberg's Shorthand Institute.	F. J. Vanderberg ..	1	3	9	1	1			14
360	Lecompton	Lane University	P. L. Lake								
361	Lindsborg	Bethany College	Maggie E. King ..	1	14	4					18
362	Manhattan	Private instruction ..	L. W. Bixler	1							
363	Marion	De Lay's Private School of Shorthand.	David W. De Lay ..								30
364	Ottawa	Allen's Shorthand and Telegraph Institute.	E. L. Allen	2	6	24	10		2		42
365	do	Ottawa Telegraph Institute and Commercial College.	Amey E. Waring ..	1	7	9			1		17
366	Peabody	Private instruction ..	Edward Butts	1	1	1					2
367	Pittsburg	Pittsburg College	W. J. Teall	1	4	2	4				10
368	Salina	St. John's Military Academy.	A. G. Gates	1	7						7
369	do	Salina Normal University.	W. D. Struble	1	12	13					25

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Mar. 1, 1890	23	Benn Pitman's phonography.	Remington	6 to 8 mos.	....	\$35 shorthand; \$10 typewriting.	339
Sept. 4, 1888	60	Cross's shorthand	Remington (2), Caligraph (2).	.....	40	\$30.....	340
Apr., 1890	5	do	Remington (1) ...	5 months	....	\$40.....	341
Mar. 12, 1888	200	do	Remington	6 months	52	\$40.....	342
Jan., 1890	7	do	Caligraph.....	3 to 6 mos.	....	50 cents per lesson	343
.....	.....	Benn Pitman's phonography.	Remington	4 to 5 mos.	....	\$40.....	344
1884.....	15	do .....	.....	6 months	....	\$50.....	345
Sept., 1888	75	Pernin's shorthand.	Remington (3) ...	3 or 4 mos.	46	\$35 per course.....	346
July, 1887	*40	Benn Pitman's phonography.	Remington and World.	30 weeks..	50	\$8 per term of ten weeks.	347
Jan. 1, 1890	5	Scovil's shorthand	.....	12 weeks..	....	\$10.....	348
1888.....	.....	Munson's phonography.	Remington (2), Caligraph (2).	4 months	....	\$20.....	349
1884.....	.....	Lindsley's tachygraphy.	Caligraph.....	20 weeks..	46	\$1 per week.....	350
Jan., 1889	*15	Benn Pitman's phonography.	do	1 year	....	.....	351
Sept. 3, 1889	40	Cross's shorthand.	Remington	5 months	52	\$5 per month.....	352
June 1, 1890	5	Munson's phonography.	Caligraph.....	.....	....	\$5.....	353
1880.....	.....	Graham's phonography.	Remington (5), Caligraph (1), Yost (1).	6 to 8 mos.	48	\$50, shorthand; \$15, typewriting.	354
Sept., 1887	80	Cross's shorthand.	Caligraph (1), Yost (1).	3 months..	48	\$50.....	355
Oct. 1, 1880	.....	do	Remington	4 months..	....	\$15 for course.....	356
.....	.....	do	Caligraph	3 months..	....	50 cents per hour	357
Jan., 1890	5	Benn Pitman's phonography.	Hammond	6 to 8 mos.	....	75 cents per lesson.	358
Apr. 15, 1890	14	do	Remington (1), Caligraph (1).	5 months..	52	\$50.....	359
Sept., 1889	50	Cross's shorthand.	Remington and International.	6 months..	38	\$8 for 12 weeks....	360
1886.....	62	Graham's phonography.	Remington (4)...	.....	34	\$34.....	361
Aug., 1887	.....	Cross's shorthand.	Caligraph and Remington.	2½ months.	....	\$40 for course.....	362
June, 1889	*39	Munson's phonography.	Caligraph (1)....	.....	....	\$10 for 20 lessons..	363
Nov., 1888	40	Benn Pitman's phonography.	Remington (1) ...	7 months to 1 year.	....	\$35 to \$40	364
Feb., 1890	16	Isaac Pitman's phonography.	Remington .....	.....	52	\$25 for 3 months ..	365
June 29, 1890	2	Benn Pitman's phonography.	.....	.....	....	.....	366
Jan. 20, 1890	7	Benn Pitman's and Moran's phonography.	Caligraph	Average 6 mos.	50	\$40 for shorthand course; \$15 for typewriting course.	367
Sept. 11, 1889	7	Cross's shorthand.	do	2 years	40	\$100.....	368
Sept. 2, 1884	110	do	Remington (2) ...	6 months	48	\$50 cents per week.	369

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	KANSAS—cont'd.										
370	Topeka.....	Private instruction..	Thos. R. Hyatt....	1			3	2			5
371	do	Young Men's Christian Association.	C. H. Nettels.....	1			15		1		16
372	Weir City	do	Rev. B. F. Smith ..	1			5	6			11
373	Wellington.....	Fazel's Shorthand Institute.	C. D. Fazel	1	8	4					12
374	Wichita	Private instruction..	N. J. Waterbury..	1	15	5	15	5			40
375	do	Southwestern Business College.	Miss Emma E. Cowan.	2	50	75	6	8	5		144
376	do	Wichita School of Shorthand Writing.	Mrs. Laura E. Sandefur.	2	5	7	3				15
377	Wilson	Wilson Private School.	J. W. Howes.....	1			30	15	1		46
378	Winfield and Wellington.	Fazel Bros. Shorthand Institute.	John H. Fazel....	3							15
379	do	Private instruction..	W. G. Tidd	1		2	5	1			8
380	Winfield.....	Southwest' Kansas M. E. College.	G. P. Van Wye....	2	8	7	3	4		2	24
	KENTUCKY.										
381	Bowling Green ..	Potter College.....	Miss Bettie Thompson.	1		21					21
382	do	Southern Normal School and Business College.	Devona Gilmore ..	1	15	5	6	4			30
383	Corinth.....	Corinth Academy ...	F. M. Hurst.....	2	15	11					26
384	Covington	Covington School of Phonography.	Kate A. Myers....	1	7	27					34
385	Dayton	Private instruction..	A. G. Kriedler	1			2	2			4
386	Hopkinsville ...	do	C. H. Dietrich.....	1	1	4	10				15
387	Lexington	Commercial College of Kentucky University.	Miss Georgia Hayes.	2	122	21					143
388	do	State Agricultural and Mechanical College.	Miss May E. Millikan.	2	27	11					38
389	Louisville	Benn Pitman School of Phonography.	Mrs. E. E. Dougherty.	1		15		1			16
390	do	Bryant & Stratton Business College.	J. D. Creager	3	63	198	31	11	14	21	338
391	do	Pernin Shorthand Institute.	John L. King	1	21	49	16	4	9	3	102
392	do	Private instruction..	H. W. Clarke	1						1	1
393	do	do	Miss C. T. Curle ..	1	5	1	2	1			9
394	do	do	C. W. Dorsey	1			4				4
395	do	St. Xavier's Institute.	Rev. Bro. James...	1	23						23
396	Madisonville....	National Institute ...	E. McCulley	1	10	3					13
397	Maysville.....	School of Phonography.	Miss Mollie E. Cummings.	1	16	14		4			34
398	Millersburg.....	Millersburg Female College.	Miss Daisy Shettman.	1		6					6
399	Owensboro.....	Private instruction..	T. D. McIntosh ...	2	15	4	10	16			45

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
.....	.....	Munson's phonography.	Remington (1) ...	60 lessons, 3 hours each.	30	\$2 per evening	370
Oct. 1, 1889	.....	Benn Pitman's phonography.	do	6 months..	24	Membership in association.	371
Nov., 1889	11	do	Remington and Caligraph.	24 lessons .....	.....	\$4 for 12 lessons...	372
1889.....	12	do	Remington	3 months..	12	\$35 per term	373
Jan. 8, 1890	53	Graham's phonography.	do	6 months..	.....	\$50 per term	374
Jan., 1885	*250	Benn Pitman's phonography.	Remington and Caligraph (5).	8 months..	52	\$50.....	375
Nov., 1887	45	do	Remington	10 weeks..	52	\$25 per term	376
Apr., 1888	45	do	None	4 years ...	24	\$10 per term of 24 lessons.	377
1886.....	*100	do	Remington (2) ...	6 months..	50	\$10 per month.....	378
1889.....	8	do	do	3 months..	44	\$30 for 50 lessons..	379
Dec. 1, 1889	24	McKee's shorthand.	Smith and Hammond (3).	3 to 5 mos.	50	\$50.....	380
Sept. 9, 1889	21	Mason's	Caligraph (2), Remington (1).	10 months..	40	\$5 for 5 months ...	381
1875.....	.....	Longley's phonography.	Caligraph (2), Remington (1).	5 months..	46	\$1 per week.....	382
Sept. 1, 1889	26	Benn Pitman's phonography.	Hammond (1)....	2 school years.	40	\$12 per year	383
Jan., 1887	72	do	Remington (1), Caligraph (1).	6 to 9 mos.	.....	.....	384
1887.....	10	do	Caligraph (1), Remington (1).	6 months..	.....	75 cents per lesson	385
1886.....	40	Pernin's shorthand.	Hall	6 months..	.....	\$10 per month	386
.....	.....	Benn Pitman's phonography.	Caligraph (8)	3 months..	52	\$35.....	387
Aug., 1888	93	do	Caligraph (2), Remington (1), Hammond (1).	5 to 6 mos.	52	\$25.....	388
1883.....	*150	do	Caligraph and Remington.	6 to 12 mos.	.....	\$50.....	389
1885.....	*850	Munson's phonography.	Remington (12), Caligraph (9), Yost (1).	5 months..	50	\$35, 3 months; \$60, 6 months; \$85, 9 months; \$110, year.	390
1885.....	165	Pernin's shorthand.	Remington (4) ..	3 months..	52	\$10 per month	391
.....	*15	Scott-Browne's phonography.	Remington	3 to 6 mos.	.....	\$25 to \$40	392
Mar., 1887	68	Benn Pitman's phonography.	Hammond and Remington (4).	4 to 6 mos.	52	\$3 per month.....	393
1885.....	.....	.....do	Caligraph, Remington.	3 to 6 mos.	.....	\$5 to \$10 per month.	394
1883.....	153	Munson's phonography.	Remington (2).	2 years....	42	50 cents per month.	395
1883.....	*50	Longley's phonography.	Caligraph (1)	42 weeks..	48	\$36 for 42 weeks ..	396
May, 1889	30	Benn Pitman's phonography.	Remington (1), Caligraph (1).	6 months..	44	\$55 per annum or \$30 6 months.	397
Jan., 1888	.....	.....do	Remington (1), Caligraph (1).	5 months..	40	\$30.....	398
Jan., 1889	94	do	Remington (1), Hammond (1).	6 months..	52	\$50	399

Statistics of instruction in shorthand in the United States

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					Male.	Female.	Male.	Female.	Male.	Female.	
	KENTUCKY—con.										
400	Owingsville.....	Owingsville Normal and Business College.	Miss Julia Marshall.	1	9	5					14
401	Williamsburg...	Williamsburg Academy.	Louise M. Morrill.	1			3				3
402	Woodsonville...	Private instruction..	Miss E. Belle Woodson.	1		1					1
	LOUISIANA.										
403	New Orleans....	Private instruction..	D. H. Buckley	1			8	2	2	1	12
404	do.....	do.....	F. C. Debes	1	15	5	8	4			32
405	do.....	do.....	Rev. Walter Dunstan.	1	4	5		6			15
406	do.....	Mercantile shorthand and typewriting office. Private instruction.	A. A. McVally	3	2	20	2	1			25
407	do.....	Private instruction..	Charles Nathan...	1	19	36					55
408	do.....	do.....	C. O'Shaughnessy.	1			30	3		1	34
409	do.....	do.....	A. J. Peters.....	1	6		6				12
410	do.....	do.....	A. L. Redden.....	3	1	3	7	20		2	33
411	do.....	Soulé Commercial College and Literary Institute.	Miss Carrie McGuigan.		1						64
412	do.....	Yost School of Shorthand.	Dalton Williams..	2					4	6	10
412½	Shreveport.....	Thatcher Institute and Kate Nelson Seminary; private instruction.	Mrs. Gussie Patrick.	1	16	9	10		2	2	39
413	Victoria	Victoria School.....	George Coverdale.	1	15	3			2		20
414	Westlake	Private instruction..	W. H. Managan...	1			7	1			8
	MAINE.										
415	Auburn	Androscoggin Business College.	W. G. Haskell.....	2							42
416	do.....	Home Shorthand Institute.	G. D. Emery	2					3		3
417	do.....	Private instruction..	Maj. J. D. Pulsifer.	1	1	11	1	3			16
418	Augusta.....	Dirigo Business College.	R. B. Capen	2	4	9			4	2	19
419	do.....	do.....	Miss Amelia M. Gould.	1	1	4					5
420	Bangor	Shorthand and Typewriting School; Maine Central Institute.	Miss A. E. Margesson.	1	5	25	4	3			37
421	Biddeford.....	Private instruction..	R. W. E. Milliken.	1			4	3			a 7
422	Bucksport	East Maine Conference Seminary.	John F. Knowlton.	1	6	7					13

a Some of these pupils were in Saco, Me.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1889	15	Benn Pitman's phonography.	Hammond (1)....	3 years....	40	\$20 per year	400
Apr., 1890	3	do .....	.....	.....	.....	.....	401
Nov. 15, 1889	.....	do	Caligraph .....	.....	.....	\$3 per month.....	402
1882.....	300	Benn Pitman's phonography.	None	6 to 12 mos. ....	.....	\$5 to \$10 per month.	403
Jan. 1, 1888	60	Isaac Pitman's phonography.	Remington	8 to 12 mos.	52	\$10 per month	404
1885	50	do	do	10 months.....	52	do	405
Dec. 1, 1889	25	do	Remington (3) ...	6 months.....	.....	\$10.....	406
1883.....	.....	Munson's phonography.	Remington	6 months.....	52	\$10 per month daily lessons; \$5 per month every other day.	407
1882.....	200	Benn Pitman's phonography.	None	5 months.....	52	\$10 per month	408
Oct. 8, 1888	16	Isaac Pitman's phonography.	Remington (1) ...	7 months.....	.....	do	409
Jan., 1884	500	Benn Pitman's phonography.	Caligraph (1), Remington (1).	6, 8, or 10 months.	.....	\$5 per month.....	410
1884.....	143	Stenograph and Isaac Pitman's phonography.	Hammond (7), caligraph (2), Remington (1), National (1).	4 to 9 mos. machine system; 12 mos. pencil system.	52	\$25 per quarter for each branch (shorthand and typewriting) to gentlemen; \$15 to ladies.	411
1881.....	213	Munson's phonography and Sloan-Duployan shorthand.	Yost (10).....	2 years.....	52	\$10 per month	412
Jan., 1888	40	Benn Pitman's phonography.	Remington (1), Hammond (1).	3 or 4 mos. ....	.....	\$7.50 per month...	412½
1887.....	45	Benn Pitman's and also Isaac Pitman's.	Caligraph (1) .....	.....	50	\$2 per month.....	413
Oct. 1, 1889	8	Lindsley's tachygraphy.	Hammond .....	.....	.....	.....	414
Nov. 11, 1889	42	Benn Pitman's phonography, modified.	Caligraph (1)	4 to 5 mos.	52	\$20 to \$50	415
Jan. 1, 1890	5	Isaac Pitman's phonography.	None	6 months.....	.....	\$10.....	416
May 9, 1889	16	do	Remington .....	.....	.....	50 cents per hour ..	417
1881.....	117	Duployan shorthand.	do	3 months to 2 years.	40	\$15 per quarter ...	418
.....	.....	Benn Pitman's phonography, modified.	.....	.....	.....	\$12 to \$15	419
Oct. 10, 1888	88	Benn Pitman's phonography.	Remington (3) ...	.....	.....	\$25 for 40 lessons..	420
Nov., 1889	7	do	Remington	20 weeks.....	.....	\$20 for 40 lessons..	421
1883.....	78	do	Caligraph (1)	1 year.....	40	\$5 for 10 weeks.....	422

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	KENTUCKY—con.										
423	Farmington.....	Abbott Family School for Boys.	Geddes G. Abbott.	1							2
424	Houlton	Ricker Classical Institute.	C. L. Estes.....	1	4	6					10
425	Pittsfield	Maine Central Institute.	M. B. Park	1	4	6		2			12
426	Portland.....	Portland School of Stenography.	Miss A.L. Sawyer	1	4	31	2	8	1	3	49
427	do	Private instruction..	Barrows & Perkins.	1							8
428	do	do	Bates Torrey	1				7	2	2	11
429	Rockland	Rockland Commercial College.	Dora A. Ames	2	5	9					14
430	Waterville.....	Private instruction..	Mrs. S. G. Crosby ..	1							6
	MARYLAND.										
431	Baltimore (111 W. Franklin St.)	Barnett's Business College.	C. E. Barnett	2	* 10	* 5	* 7	* 3			* 25
432	Baltimore (904 N. Stricker St.)	Chaney Stenographic Institute.	R. G. Chaney, A. M.	1	12	9	21	7	2	2	53
433	Baltimore.....	The Gymnasium School.	W. T. Watson	1	6						6
434	Near Baltimore.	Mt. St. Joseph College.	Bro. Isidore.....	2	6						6
435	Baltimore (702 W. Saratoga St.)	Private instruction..	Arthur T. Buck ..	1			4	3	1		8
436	Baltimore.....	do	Elizabeth M. Chism.	1	2	2	2		1		6
437	do	do	W. J. Mackee.....	1			4				4
438	do	do	Geo. M. Shriver.....	1	3		2				5
439	do	Sadler's Bryant and Stratton Business College.	G. E. Teeple	2							
440	do	St. Peter's Roman Catholic High School.	Rev. Bro. Andrew	2	56		4				60
441	do	Samuel Ready School for Girls.	Arthur D. Thompson.	1			1	4			5
442	do	Young Men's Christian Association.	Stanley Baker	1			90				90
443	do	Young Men's Christian Association West Branch.	Edgar W. Day	1			25				25
444	Catonsville	Mt. de Sales Academy.	Mary L. Watson.....	1							6
445	do	Private instruction..	John Watson.....	1					55	15	70
446	Colora	West Nottingham Academy.	John G. Conner ...	1	9	3					12
447	Cumberland	Young Men's Christian Association.	J. W. Wincow	1	7						7
448	Elkton.....	Private instruction..	Rev. John Jones ..	1	6	6					12

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1888.....	5	Isaac Pitman's phonography.	Remington	2 years ...	38	\$12 per quarter ...	423
1887.....	*30	do	None .....	.....	.....	.....	424
Sept. 5, 1888	12	Benn Pitman's phonography.	Caligraph (1)	6 months ..	37	\$18 per term (12 weeks).	425
.....	.....	do	Remington (2) ...	3 to 5 mos.	44	\$25.....	426
May 1, 1890	15	Pitman's and Scott-Browne's phonography.	Caligraph (4) ....	.....	.....	\$10 for 20 lessons..	427
1884.....	50 or 60	Benn Pitman's phonography.	Remington (2) ...	20 weeks..	20	\$25 and \$15 per course.	428
Sept., 1888	.....	do	Remington (1) ...	6 months ..	42	\$20 per term of 11 weeks.	429
1882.....	.....	Scott-Browne's phonography.	Caligraph.....	.....	.....	75 cents per lesson	430
May 1, 1886	.....	Watson's phonography.	Remington (3), Hammond (3), Caligraph (1), National (1).	6 months ..	38	\$50 for 6 months.	431
1868 .....	.....	Graham's phonography principally; Benn Pitman's, also; Isaac Pitman's and Munson's systems occasionally.	Remington (1) ...	3 to 10 mos.	44	\$10 per month for 3 hours daily instruction; \$5 per month for 2 lessons per week.	432
Sept., 1886	25	Watson's phonography.	Remington	2 years.....	40	\$60 per year.....	433
1885.....	34	Munson's and Watson's phonography.	do	1 year.....	36	\$5 per year.....	434
.....	8	Benn Pitman's phonography.	.....	6 months ..	.....	\$1 per lesson for first ten lessons, then 50 cents.	435
May, 1889	6	do .....	.....	1 year	44	\$10 per quarter ...	436
1885.....	40	do	Caligraph .....	.....	40	From \$10 to \$15 per quarter.	437
Jan., 1888	7	do	Remington (1), Smith (1).	10 to 12 mos.	.....	.....	438
1888.....	.....	McKee's shorthand.	Remington	6 months ..	52	\$30 for 3 months..	439
Sept., 1889	120	Benn Pitman's phonography.	Caligraph (3), Hammond (1).	1 year	40	Free.....	440
Dec., 1888	5	Isaac Pitman's phonography.	Remington (1)...	9 months ..	36	\$10 for 13 weeks ..	441
1880.....	500 to 600	Graham's phonography.	Remington .....	.....	26	Membership in association.	442
Oct. 1, 1887	about 75	Isaac Pitman's phonography.	.....	5 months ..	20	.....	443
Mar., 1890	6	Watson's phonography.	.....	.....	.....	.....	444
.....	.....	do .....	.....	.....	.....	50 cents per hour; by mail free.	445
Apr., 1889	12	Pernin's shorthand.	Remington (2)...	.....	40	.....	446
Oct. 1, 1889	20	Benn Pitman's phonography.	Hammond (1) ...	2 terms ...	28	Membership in association (\$5).	447
Nov., 1889	12	do	Remington	6 months ..	.....	\$40.....	448

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MARYLAND—con.										
449	Emmitsburg....	St. Joseph's Academy	Sister of Charity	3							
450	Hagerstown....	Wolf's Business Institute.	D. Elmer Wolf....	2	7	6	2	1			16
451	Hampden.....	St. Mary's Class	John Spring, jr....	1			2	3			5
	MASSACHUSETTS.										
452	Boston.....	Allen Institute	G. G. Allen	3	23	88	5	9	3	5	133
453	do	Beale's Shorthand School.	Chas. C. Beale	3	7	88	5	18	2	7	127
454	do	Boston Evening High School.	Wm. F. Murray, T. D. Apollonio.	2							
455	do	Bryant & Stratton Commercial School.	Geo. M. Holman....	5	25	175					200
456	do	Comer's Commercial College.	Benj. A. Farnham.	2	50	100	30	20			170
457	do	French's Business College.	Miss M. F. Butterworth.	1	4	20					24
458	do	Greenwood's School of Shorthand.	S. G. Greenwood ..	1	15	150	5	20		20	210
459	do	Hall Commercial College.	Aldis O. Hall.....	3	10	60	5	25	3	8	111
460	do	Hickox's Shorthand School.	W. E. Hickox	2							
461	do	Jenkins' School of Shorthand.	W. L. Jenkins	2	50	150	5	20			225
462	do	Mrs. Chandler's Home School of Shorthand and Typewriting.	Mrs. M. Alderson Chandler.	2	3	63	33	23			a 122
463	Boston (Jamaica Plain).	Private instruction..	Armistead K. Baylor.	1	1	1	2	1			5
464	Boston.....	do	Miss N. S. Hardy ..	1		15				1	16
465	do	do	Adam Howe.....	1	5	20	4	14	2	23	68
466	do	do	Wm. B. Wright....				2	3			5
467	do	Sawyer's Commercial College.	M. W. Woodward.	1		6					6
468	South Boston...	School of phonography; School of Art.	Wm. B. Wright....	2	30	45	30	45			150
469	Boston	Weymouth Shorthand School.	John G. Weymouth.	1	11	44	9	36	2	6	108
470	do	Young Men's Christian Association.	John H. Urich....	1			89				89
471	do	do	E. E. Marshall....	6			48	7			55
472	Cambridge	Evening High School	Emily A. Thackeray.	2			*55	*60			*115
473	Canton Junction.	Private instruction..	M. J. Lonergan ...	1	1	5	1				7
474	Charlestown....	Charlestown Branch Evening High School.	Richard F. Sullivan.	1	15	5	*70	*55			*145
475	Charles town, (16 Bolton Place)	Private instruction..	Alcott W. Stockwell.	1				2			2

a These figures include pupils taught in East Boston Evening High School and Murdoch Free School.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1886	50	Pernin's shorthand.	Remington, Smith and Hall (4).	.....	40	\$15 per term	449
1889 .....	.....	Munson's and Benn Pitman's phonography.	Remington (4) ...	.....	50	\$50	450
May, 1889	5	Benn Pitman's phonography.	Remington (1) ...	1 year 6 mos.	32	\$10 for 20 lessons..	451
June 1, 1880	*1,000	Allen's phonography.	Hammond, Remington, Caligraph, Yost and Hall, Caligraph (8).	20 and 60 lessons.	52	\$15, \$35, \$45	452
Sept. 1, 1884	557	Beale's phonography.	Remington (5), Hammond (1).	4 months .	48	\$40	453
.....	.....	Benn Pitman's phonography.	.....	.....	20	Free	454
1886 .....	.....	Graham's phonography.	Remington (30), Caligraph (30).	10 months.	40	\$40 for ten weeks..	455
1884	*500	do	Remington, Caligraph.	4 to 6 mos.	39	\$45 for 13 weeks...	456
Aug., 1880	223	Benn Pitman's phonography.	Hammond and Remington.	24 weeks..	52	\$35 per term of 12 weeks.	457
Dec. 1, 1885	410	do	Remington, Caligraph, and Hammond (25).	6 months .	.....	\$40 for 80 lessons..	458
Sept., 1888	300	Hall's phonography.	Remington, Caligraph, and Yost (8).	3 months..	52	\$40 for 3 months..	459
.....	.....	.....	Remington (30) ..	5 months .	.....	\$20 for first month; \$15 a month thereafter.	460
May 1, 1882	1,800	Munson's and Benn Pitman's phonography.	Remington and Hammond (17).	3 to 6 mos.	52	\$12 per month	461
.....	.....	Chandler's tachygraphy.	Remington (2), Caligraph (3), Yost (2).	4 to 5 mos.	.....	\$20 per month	462
Apr., 1888	7	Benn Pitman's phonography.	.....	.....	.....	\$1 per hour	463
Sept. 12, 1887	36	Graham's phonography.	Caligraph (2)	4 to 6 mos.	38	\$40 for 3 months ..	464
Apr., 1852	350	Lindsley's tachygraphy.	Caligraph (3)	3 months .	45	\$20	465
.....	.....	Benn Pitman's phonography.	.....	.....	.....	.....	466
1886	26	Isaac Pitman's phonography.	Remington and Hammond.	.....	.....	\$50 for course.....	467
Dec., 1885	.....	do .....	.....	5 months .	22	Free	468
Oct., 1888	125	do	Caligraph (2), Hammond (2).	3 months .	52	\$35	469
1883	656	do	Remington .....	.....	24	Membership in association.	470
1881	417	Benn Pitman's phonography.	.....	.....	20	Free	471
Jan. 3, 1889	150	do	None	100 evenings.	.....	None	472
Jan. 889	7	Allen's phonography.	Yost (1)	3 to 6 mos.	.....	\$35 for 60 lessons .	473
Nov. 9, 1888	*300	Benn Pitman's phonography.	None .....	.....	22	Free	474
.....	2	Graham's phonography.	.....	.....	.....	.....	475

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MASSACHUSETTS—continued.										
476	Chicopee	St. Joseph's Parochial School.	Brother Cammil-lus.	4	22						22
477	Everett.....	Private instruction..	S. Grant Stewart..	2	3	7					10
478	do	Young Men's Chris-tian Association.	do	1			3	4			7
479	Fall River	Advanced Free Evening School.	Edward V. Mur-phy.	1			25				25
480	do	Fall River Business College and School for Shorthand.	Jno. P. Ogden.....	1							13
481	do	Holmes' B. and S. Commercial College.	William Turner ..	1			7	8			15
482	do	Private instruction..	do	1			24				24
483	Holyoke	Child's Business Col-lege.	Annie D. Atwood..	1		6					6
484	do	Holyoke High School	J. H. Farley	1	17	25			3	1	46
485	do	Private instruction..	do	1	11	7					18
486	do	do	Miss Minnie A. Farley.	2	7	9	4	14	3	1	38
487	Lawrence.....	Cannon's Commercial College.	N. N. Bishop.....	1	1	15	2	1			19
488	do	Private instruction..	John Sacher	1	1		2		1		4
489	Lowell.....	Lowell Commercial College.	L. E. Kimball	1	3	6	2	3			14
490	do	Private instruction..	Wm. H. Jones	1			2	3			5
491	do	Young Men's Chris-tian Association.	Clifton C. Dexter ..	1			18				18
492	Lynn	Private instruction..	Miss S. A. Web-ster.	1	2	13	2	3			20
493	do	Shorthand Class, Public Evening Schools.	M. W. Woodward..	1			68	78			146
494	New Bedford ...	Private instruction..	John M. Case				3	5		1	9
495	Northampton ...	do	J. H. Farley.....	1			6	4			10
496	Pepperell	do	Orcutt N. Carr.....	1			1	3			4
497	Quincy	do	Rev. Geo. Benedict	1	4	4					8
498	Roxbury.....	do	Geo. W. St. Amant..	2			5	1			6
499	Sandwich.....	do	D. F. Chessman ...	1	1						1
500	Springfield	Child's Business Col-lege.	Barter J. Griffin ..	1	2	52		2			56
501	do	Collegiate Institute	Chas. Mayr	1	4	2	5	4			15
502	do	Private instruction..	J. H. Farley.....	1		4	11	7	15	14	51
503	do	do	Wm. L. Gammons ..	1	2	3					5
504	do	do	John S. Hull	1	18	17	13	12			60
505	do	Young Men's Chris-tian Association.	F. P. Frost.....	1			7				7

a One of these students was taught in Ayer, Mass.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1889	50	Benn Pitman's phonography.	Caligraph (2)	3 years . . .	40	.....	476
1884	*30	Graham's phonography.	do	3 to 5 mos. . . . .	.....	\$5 for 12 lessons . . .	477
Oct., 1888	32	do	Caligraph (1)	5 months . . .	20	\$2 for 20 lessons . .	478
1889	25	Munson's phonography.	None . . . . .	.....	16	Free	479
Apr. 1, 1890	13	Isaac Pitman's phonography.	Remington	3 to 6 mos. . . . .	.....	\$10 per month	480
1889	20	do	Hammond (3)	6 months . . .	45	\$60	481
.....	.....	.....do	None	6 months . . .	24	\$25 for individual instruction; in class, \$15.	482
1886	20	Cross's shorthand.	Remington	6 months . . .	42	\$10 per month	483
Oct. 1, 1889	42	Munson's phonography.	do	6 months . . .	40	Free	484
July 1, 1889	20	do . . . . .	.....	.....	.....	\$1 per lesson	485
Sept., 1888	47	do	Remington	24 weeks . . . . .	.....	75 cents per lesson . .	486
1887	25	Cross's shorthand	Yost (1), Caligraph (1).	4 months . . . . .	.....	\$40 for 3 months . .	487
Oct., 1889	.....	Isaac Pitman's phonography.	Caligraph . . . . .	.....	.....	\$1 per hour	488
Sept. 1, 1888	33	Benn Pitman's phonography.	Hammond, Caligraph, and Remington (5).	10 months . . .	42	\$25 per quarter . . .	489
1882	25	Isaac Pitman's phonography.	Caligraph	6 months . . . . .	.....	\$10 for 12 lessons . .	490
.....	.....	Graham's phonography.	None	20 weeks . . . . .	.....	Membership in association.	491
Sept., 1888	29	do	Remington and Caligraph (3).	6 months . . . . .	.....	\$12 per month	492
Oct., 1885	225	Isaac Pitman's phonography.	None . . . . .	.....	26	Free	493
May, 1890	8	Graham's phonography.	Hammond (1)	About a year . . . . .	.....	\$50 for course	494
Nov. 1, 1889	10	Munson's phonography.	Remington	24 weeks . . . . .	.....	\$1 per lesson	495
Sept. 10, 1889	4	Benn Pitman's phonography.	World (1)	6 to 8 mos.	32	\$10 for 20 lessons . .	496
1885	10	do	Caligraph (1)	From 3 months up	52	\$50	497
May, 1889	6	Lindsley's tachygraphy.	Remington (2)	6 months . . .	50	50 cents an hour . . .	498
1872	4	Benn Pitman's phonography.	.....	6 weeks . . . . .	.....	\$6	499
Sept., 1887	175	Cross's shorthand.	Remington (2)	6 months . . .	40	\$60	500
1878	200	Gabelsberger's stenography	Merritt, Hammond, and Remington.	3 months . . .	40	\$15 for course	501
Oct. 1, 1889	18	Munson's phonography.	Remington	24 weeks . . . . .	.....	\$1 per lesson	502
.....	.....	.....do . . . . .	.....	.....	.....	.....	503
1880 . . . . .	.....	.....do	None	15 lessons for theory, 15 for practice.	.....	75 cents per lesson . .	504
.....	.....	Graham's phonography.	.....	.....	.....	\$3	505

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MASSACHUSETTS—continued.										
506	Westfield.....	Private instruction..	Miss Ida M. Braçy.	1							11
507	Wilbraham.....	Wesleyan Academy .	Marcia L. Wood ..	1	8	1					9
508	Worcester.....	Becker's Business College.	Miss Nellie Whitney.	1	3	17	3	1			24
509	do	Foster's Business College.	Minnie B. Fuller..		6	14					20
510	do	Hinman's Business College.	A. H. Hinman	1	10	30	5	5			50
511	do	Private instruction ..	Miss E. A. Clark ..	1	17	33	7	2		1	a 60
512	do	do	Charles H. Goodell.	1			1	1			2
513	do	do	Edna I. Tyler.....	2	20	5	20				45
514	do	Worcester Select School of Shorthand.	Geo. C. Creelman .	1	6	13	4		2	3	29
515	do	Young Men's Christian Association.	Harry W. Anderson.	1			39		1	1	41
516	Zylonite	Private instruction ..	Jeannette M. Avery.	1			1	1			2
	MICHIGAN.										
517	Adrian	Adrian High School.	W. H. Carrier.....	1	3	7					10
518	do	Brown's Business University.	Miss Clara D. Force	1	6	3					9
519	do	Private instruction..	Clinton D. Hardy..		6	6				2	14
520	do	School of Commerce of Adrian College.	W. A. Moulder.....	1	3	1					4
521	Albion.....	Albion College	Mr. McLean	1	5	5					10
522	Alma.....	Yerington's College..	C. W. Yerington ..	2	15	10					25
523	Alpena	Private instruction..	Chas. B. Browning	1			6	2			8
524	Ann Arbor	The Stenographic Institute.	S. A. Moran.....	3	96	22			73	69	260
525	Battle Creek....	Battle Creek College.	Jno. W. Fulton ...	2	30	18			4	3	55
526	do	Krug's Business College.	David Sillers	1	3	13					16
527	Bay View	The Bay View School of Shorthand, Bay View University.	Miss Nellie F. Milburn.	1	2	6				2	10
528	Benton Harbor .	Normal and Collegiate Institute.	G. J. Edgcumbe...	2	47	41					88
529	Big Rapids	Industrial School of Business.	W. N. Ferris.....	1	7	18					25
530	Charlevoix	Private instruction..	J. B. Allen	1			6	2			8
531	Detroit ..	Detroit Business University.	Miss Marion Brown.	2	63	188	37	30			318
532	do	German-American Seminary.	G. Herrmann	1	25	20					45
533	do	St. Joseph's Commercial School.	Rev. Bro. Amulwin.	1	29						29
534	East Saginaw...	International Business College.	Mrs. Stella M. Bliss.	3	10	60	2	1			73

a Some of these pupils were taught in Groton, Mass.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Jan. 1, 1890	11	Munson's phonography.	Caligraph	8 months		75 cents per lesson.	506
Sept., 1878	18	Benn Pitman's phonography.	Remington (1)		38½	\$30 per year	507
1889	24	Munson's phonography.	Caligraph and Hammond.	6 to 10 mos.	43	\$10 per 4 weeks ...	508
1882	200	Cross's shorthand.	Remington	6 months ..	43	\$10 per month	509
1885	*200	McKee's shorthand.	do	4 months ..	40	\$50 for course.....	510
1889	43	Osgoodby's phonography.	Caligraph	10 months.	48	\$10 per month	511
1886	10	Munson's phonography.	Remington			\$1 per lesson.....	512
Mar. 4, 1885	62	Benn Pitman's phonography.	Remington (1), Caligraph (1).	3 to 6 mos ..		do	513
Aug., 1887	68	Cogswell's phonography.	Caligraph (1), Remington (1).	6 to 8 mos.	51	\$50 for term of 6 months.	514
Oct., 1888	33	Benn Pitman's phonography.	Remington (1) ..	6 to 9 mos.		\$1 per lesson.....	515
		Graham's phonography.					516
Sept., 1886	70	Cross's shorthand.	Remington (1)...	1 year	40	50 cents per week for nonresident pupils.	517
Nov. 1, 1888	15	Moran's phonography and the stenograph.	Caligraph (1)	3 to 5 mos.	50	\$50 commercial course.	518
1879	100	Lindsley's tachygraphy.	Remington (1) ..	6 to 10 weeks.	52	\$5 for 12 lessons ..	519
1884		Cross's shorthand.	Remington	1 year	39	\$10 per term of 12 weeks.	520
1888	38	do	Hammond and Remington (3).	6 months..	36	Tickets.....	521
July, 1886	200	Benn Pitman's phonography.	Caligraph and Crandall.	1 year	36	\$1 per week.....	522
Jan. 6, 1890	8	Cross's shorthand.	Remington (3)...	6 months..		\$35.....	523
Oct. 1884	763	Moran's phonography.	Remington (4)...	4 to 6 mos.	52	\$2.50 per week....	524
1880	*145	Pernin's shorthand.	Remington (2), Caligraph (1).	3 months..	40	\$40 per year	525
1877	60	do	Caligraph (3)	3 to 5 mos.	48	\$25 for 3 months..	526
July 16, 1889	8	Benn Pitman's phonography.	Remington	4 to 6 mos.	4	\$5 for 4 weeks, 50 cents single lessons.	527
Sept., 1886	189	do	Remington (2)...	1 year	40	\$30 per year	528
1887	65	Osgoodby's phonography.	Caligraph (1), Smith (1), Remington (1).	6 to 8 mos.	50	\$15 for 12 weeks ..	529
		Benn Pitman's phonography.		3 to 12 mos.		\$15 to \$50.....	530
About 1883		Graham's phonography.	Caligraph, Remington, and Yost (10).	6 to 8 mos.	52	\$50 for 6 months..	531
Sept. 1, 1889	45	Gabelsberger-Richter stenography.		1 year.....	43	\$1.50 per month...	532
Oct., 1889	29	Benn Pitman's phonography.	Caligraph (2), Hammond (1).	3 years....	43	\$5 per quarter	533
Sept. 15, 1885	200	Graham's phonography.	Remington (2), Yost (3).	3 to 6 mos.	50	\$25 for 3 months; \$50 life scholarship.	534

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MICHIGAN—con.										
535	Escanaba	Private instruction..	Rev. Owen Jones ..	1	6	24	.....	.....	.....	.....	27
536	Flint	Flint Normal College.	G. S. Kimball	2	10	22	.....	.....	.....	.....	32
537	Gladwin	Gladwin High School.	F. C. Smith	1	16	14	4	1	.....	.....	35
538	Grand Rapids ..	Grand Rapids Business College.	George B. McC. Withey.	1	6	23	5	7	.....	.....	41
539	do	West Michigan Business University.	John A. Craver...	2	43	53	48	23	.....	2	169
540	Hancock.....	School of phonography, Hancock Commercial College.	L. M. Sanders.....	1	9	5	3	1	.....	.....	18
541	Ishpeming.....	Northern Michigan Business College.	E. E. Rogers .....	.....	.....	.....	.....	.....	.....	.....	.....
542	Jackson	Devlin's Business College.	Thomas I. Daniel ..	2	.....	.....	.....	.....	.....	.....	.....
543	Kalamazoo	Private instruction..	Miss Katie Scripps	1	.....	.....	1	5	.....	.....	6
544	do	Shorthand Institute, Parsons' Business College.	Carrie A. Parsons.	1	10	25	5	5	1	.....	46
545	Marquette.....	Upper Peninsula Business College.	Maggie Gordon...	1	2	13	4	2	.....	.....	21
546	Menominee	Institute of Shorthand, Northwestern College of Commerce.	Miss Jessie Wilson	1	10	25	.....	.....	.....	.....	35
547	Monroe.....	St. Mary's Academy.	.....	.....	.....	3	.....	.....	.....	.....	3
548	Muskegon	Ferris Business College.	H. W. Rathbun ...	2	5	15	5	.....	.....	.....	25
549	do	Private instruction..	Frank H. Bassett.	1	.....	.....	.....	1	.....	.....	1
550	Orchard Lake...	Michigan Military Academy, private instruction.	Jas. C. F. Hollister	.....	.....	.....	2	.....	.....	.....	2
551	Pinckney.....	Pinckney Union School.	Wm. A. Sprout...	1	3	3	.....	.....	.....	.....	6
552	Pontiac.....	Private instruction..	Flora Osmun.....	1	3	12	.....	.....	.....	.....	15
553	Port Huron.....	Academy of the Sacred Heart.	Sisters of Providence.	4	7	67	.....	.....	.....	.....	74
554	Saginaw	O'Donnell's Business College.	D. J. O'Donnell...	2	35	25	10	5	45	30	150
555	Saginaw (E. S.).	Saginaw Shorthand Institute, Saginaw Business College.	D. Morrison.....	1	2	12	4	1	.....	.....	19
556	Spring Arbor...	Spring Arbor Academy.	R. V. Hough.....	1	.....	.....	.....	.....	.....	.....	20
	MINNESOTA.										
557	Brainerd.....	Northwestern Business College.	J. F. Gerrity	1	12	4	2	.....	.....	.....	18

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Mar., 1890	27	Isaac Pitman's phonography.	.....	1 year, 1 lesson a week.	.....	Free	535
July 7, 1888	47	Longley's phonography.	Caligraph.....	30 weeks..	50	\$8 per ten weeks..	536
1888.....	35	Benn Pitman's phonography.	Odell (1), Hammond (1), Caligraph (1), Yost (1).	.....	40	\$2.50 for 10 lessons.	537
June 1, 1889	41	Graham's, Munson's, and Benn Pitman's phonography, Cross's shorthand, and the stenograph.	Remington (2) ...	6 months to 1 year.	52	\$25 for 3 months ..	538
1881.....	530	Graham's phonography.	Caligraph, Remington, and Hammond (8).	6 months to 1 year.	50	\$10 for 10 weeks ..	539
Oct. 28, 1889	18	Benn Pitman's phonography.	Hammond (2)....	6 months ..	40	\$25 for 6 months ..	540
1887.....	.....	Day's phonography principally, also Scovill's shorthand and the stenograph.	Caligraph, principally.	6 or 7 mos.	52	\$40 for 6 months ..	541
.....	.....	Graham's phonography.	Remington (1), Caligraph (1).	.....	.....	75 cents per lesson.	542
Aug. 1, 1885	15	Cross's shorthand.	Caligraph and Remington.	3 months..	.....	50 cents per lesson.	543
1882.....	200	Munson's phonography.	Remington and Caligraph.	6 to 9 mos	44	\$50 and \$60	544
Jan. 1, 1888	43	Lindsley's tachygraphy.	Remington (1), Yost (1), Hammond (1).	6 months..	52	\$40.....	545
May 5, 1890	35	Cross's shorthand.	Caligraph (2), Remington (2).	5 to 7 mos.	48	\$60.....	546
.....	.....	.....	.....	.....	.....	.....	547
Oct. 1, 1888	25	Graham's phonography.	Remington	8 to 12 mos.	48	\$60 per year	548
May, 1882	13	Munson's phonography.	Remington (1)...	6 months ..	.....	\$25.....	549
Jan., 1886	12	Moran's phonography.	do.....	16 weeks..	.....	\$30 for private instruction, \$20 in class.	550
1887.....	6	Lindsley's tachygraphy.	.....	.....	.....	.....	551
.....	15	Pernin's shorthand.	Hammond (1), Caligraph (1), Remington (1).	3 to 7 mos.	.....	50 cents per lesson.	552
1889.....	74	Cross's and Pernin's shorthand.	Remington (2)...	3 months ..	40	Free to pupils of school, \$10 for 3 months' private instruction.	553
Feb., 1888	150	Benn Pitman's phonography.	Yost (1).....	6 mos. to 2 years.	48	\$35.....	554
Jan. 1, 1890	30	Pernin's shorthand.	Yost.....	4 to 6 mos.	40	\$40 for 6 months..	555
Sept. 3, 1889	20	Haven's phonography.	.....	3 months..	40	\$18.....	556
Mar. 10, 1890	18	Benn Pitman's phonography.	Remington (2)...	6 months..	52	\$50 for 6 months..	557

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MINNESOTA—continued.										
558	Crookston	Crookston School of Shorthand.	J. B. Lanigan	1	.....	.....	.....	.....	.....	.....	25
559	Duluth	Parsons's Shorthand Institute, Parsons's Business College.	A. C. Parsons	2	12	13	10	5	.....	.....	40
560	do	Private instruction..	Miss Evangeline Chapman.	1	2	.....	.....	.....	.....	.....	10
561	Mankato.....	Mankato Business College.	Miss Minnie Dassel.	1	5	6	4	.....	.....	.....	15
562	do	Private instruction..	Miss Nettie L. Tompkins.	1	.....	.....	3	4	.....	.....	7
563	Minneapolis	Bower's Shorthand School.	George B. Bower..	3	53	109	.....	.....	29	43	236
564	do	Caton's Shorthand School.	T. J. Caton.....	3	76	56	.....	.....	.....	.....	132
565	do	Curtiss Commercial College.	Wm. H. Curtiss...	3	51	87	15	15	11	6	185
566	do	Northwestern College of Commerce.	Miss S. L. Morrow	3	45	80	25	15	.....	.....	165
567	Minneapolis, 1214 Linden avenue.	Private instruction..	C. T. Moffett.....	1	1	.....	.....	.....	.....	1	2
568	Minneapolis	do	R. S. Reeves	1	.....	.....	50	150	2	4	206
569	do	Private instruction, University of Minnesota.	George A. Clark..	1	20	.....	.....	.....	.....	.....	20
570	do	Pickard & Gruman's School of Shorthand, Archibald Business College.	G. A. Gruman	2	20	50	9	10	3	2	94
571	do	Young Men's Christian Association.	Geo. B. Bower	1	.....	.....	19	.....	.....	.....	19
572	New Ulm	Dr. Martin Luther College.	.....	.....	30	.....	.....	.....	.....	.....	30
573	Northfield	Carleton College.....	Miss S. S. Crosby .	1	.....	.....	.....	.....	.....	.....	.....
574	Red Wing	Beeman's Actual Business College.	A. Rosenberger...	1	21	23	4	.....	.....	.....	48
575	St. Paul.....	Cretin High School..	Bro. Ambrose.....	3	78	.....	.....	.....	.....	.....	78
576	do	College of Shorthand and Typewriting.	Miss J. D. Hess ...	3	53	87	30	12	10	5	207
577	do	Curtis Commercial College.	Miss Hattie J. Thompson.	2	27	57	2	7	.....	.....	.....
578	do	Globe Business College.	Frank A. Maron..	2	17	21	12	7	1	3	61
579	do	Shorthand and Typewriting Institute, St. Paul Business College.	E. Robb.....	2	8	32	4	6	1	2	53
580	do	Young Men's Christian Association.	.....	1	.....	.....	10	.....	.....	.....	10
581	St. Peter.....	Gustavus Adolphus College.	John L. Hallstrom	1	3	4	.....	.....	.....	.....	7
582	Sauk Centre	Sauk Centre Academy	Miss A. L. Galusha	1	1	3	.....	1	.....	.....	5
583	Stillwater.....	Stillwater School of Shorthand and Typewriting.	H. L. Andrews....	2	6	18	12	.....	.....	.....	36

^a These figures include evening pupils.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
June 20, 1890	25	Pitman's and Graham's phonography.	Remington (3), Caligraph (1).	6 to 8 mos.	48	\$50 for course.....	558
Sept. 1, 1885	40	Munson's phonography.	Remington	6 to 9 mos.	50	\$60 for 6 months..	559
.....	.....	Benn Pitman's phonography.	do .....	.....	.....	.....	560
Nov. 11, 1889	15	do	Caligraph (2)....	6 to 9 mos.	52	\$35 for 6 months..	561
May 1, 1888	17	do	Caligraph (1)....	.....	.....	.....	562
July 1, 1884	1,082	Munson's, Graham's, and Pitman's phonography.	Remington (14) ..	Depends on general education of student.	52	\$50 for life scholarship.	563
Jan., 1889	172	Pitman's and Munson's phonography, and McKee's shorthand.	Remington (12) ..	3 months to 1 year.	52	\$45 for 6 months ..	564
.....	.....	.....do	Remington (17), Caligraph (8).	6 months ..	52	\$50 for 6 months ..	565
Nov., 1889	25 to 300	Cross's shorthand and Graham's phonography.	Remington, Caligraph, and Hammond.	About 6 months.	48	\$60 for complete course.	566
.....	2	Benn Pitman's phonography.	Caligraph (1)	14 weeks..	.....	\$20 for course.....	567
Dec., 1886	*200	do	Remington (2)...	3 to 6 mos.	52	\$35 for complete course.	568
1889.....	20	Graham's phonography.	do	1 year.....	40	\$10.....	569
1880.....	376	Munson's phonography.	Remington (5) ...	6 to 8 mos.	52	Full course \$50 ...	570
1888.....	50	do .....	.....	.....	26	Membership in association (\$5)	571
.....	.....	Stenotachygraphy	.....	1 month ..	.....	50 cents per lesson.	572
Sept., 1888	80	Cross's shorthand.	Remington (1) ...	1 school year.	38	\$26 per year	573
Sept., 1889	44	do	Remington (3), Hammond (1).	About 6 months.	52	\$40 for 6 months ..	574
1886.....	178	Benn Pitman's phonography.	Remington (7) ...	4 years....	40	\$1.50 and \$2 per month.	575
Sept., 1889	207	do	Remington (10) ..	6 months ..	52	\$50 for 6 months ..	576
Sept., 1881	.....	Munson's phonography.	Remington (6), Caligraph (3).	do	52	do	577
June 1, 1885	316	Moran's phonography.	Remington and Caligraph.	4 months ..	52	\$40 full course	578
1884.....	247	Cross's shorthand.	Remington (6) ...	3 to 6 mos.	52	\$90 per year.....	579
1885.....	40	Pitman's phonography and Cross's shorthand.	Remington	6 months ..	.....	Membership in association.	580
Nov., 1889	7	Munson's phonography.	Remington (1) ...	do	52	\$30 for 6 months ..	581
Sept. 2, 1889	4	do	do	3 to 6 mos.	50	\$35 for course.....	582
May 1, 1890	36	Graham's phonography.	Remington, Caligraph, and Yost (total 8).	6 to 8 mos.	48	\$40 for 4 months; no charge for subsequent attendance.	583

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MINNESOTA—continued.										
584	Winona.....	Winona Business College and Shorthand Institute.	Miss Cora I. Ross.	1	3	12	2	.....	.....	.....	17
	MISSISSIPPI.										
585	Byhalia.....	Waverly Institute...	A. M. Moore.....	1	2	3	.....	.....	.....	.....	5
586	Columbus	Industrial Institute and College.	Miss Helen Graves	1	.....	37	.....	.....	.....	.....	37
587	(Near) Courtland, Miss.	Shiloh public school.	W. S. Cooper.....	1	10	.....	5	.....	2	.....	17
588	Houston.....	Mississippi Normal College.	M. Lily Johnson..	1	1	4	.....	.....	.....	.....	5
589	Iuka.....	Iuka Normal Institute.	G. T. Howerton...	1	.....	.....	.....	.....	1	.....	1
590	Lexington	Lexington Normal College.	Miss Nettie C. Wall.	3	2	10	.....	.....	.....	.....	12
591	Meridian	State Business College.	Miss H. Julia Smith.	2	3	5	.....	.....	.....	.....	8
592	Pass Christian .	Pass Christian Institute.	Henry C. Mayer ..	1	.....	*12	.....	.....	.....	.....	*12
	MISSOURI.										
593	Cape Girardeau.	St. Vincent's College.	Rev. Wm. Nolan, C. M.	3	*15	.....	.....	.....	5	.....	20
594	Chillicothe	Carver's Business College and Shorthand Institute.	W. S. Carver.....	2	2	.....	2	.....	.....	.....	4
595	Clinton	Clinton Academy....	R. D. Waddell	2	2	.....	.....	.....	.....	.....	2
596	College Mound .	McGee College	Mrs. Jesse Stamper	2	3	9	.....	.....	.....	.....	12
597	Concordia	St. Paul's College....	A. H. Schoede.....	1	4	.....	.....	.....	.....	.....	6
598	Fulton.....	Synodical Female College.	N. D. Thurmond ..	1	9	10	.....	.....	.....	.....	19
599	Greenfield	Ozark College	W. B. McReynolds	1	9	5	.....	.....	.....	.....	14
600	Hannibal	Conservatory of Music, private instruction.	Mrs. J. S. Barlow .	1	4	8	.....	.....	.....	.....	12
601	do	Private instruction..	Mrs. Emilie L. Treat.	1	8	25	3	.....	.....	.....	36
602	Humphreys	Shorthand Institute; Humphrey's College and Business Institute.	Miss Emma McClaskey.	1	12	8	.....	.....	.....	.....	20
603	Ironton.....	Private instruction..	J. W. Worsnop ..	1	3	2	.....	.....	.....	.....	5
604	Kansas City	Dickson School of Shorthand.	W. B. Dickson	3	30	100	20	10	.....	3	163
605	do	Kansas City Business University.	W. O. Melton	2	10	29	4	3	97	40	183
606	do	National Business College.	S. L. Daily	2	60	26	11	24	1	3	125
607	do	Powell's Shorthand School.	John C. Powell ...	1	2	13	3	3	5	20	46
608	do	Spalding's Commercial College.	Willis H. Leavitt.	2	42	168	5	9	.....	.....	224
609	Kirkwood	St. Peter's school	Mother Mary.....	1	.....	.....	.....	.....	.....	.....	2
610	Jefferson City ..	Lincoln Institute, private instruction.	W. H. Furniss	1	.....	.....	.....	.....	.....	.....	.....

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept. 1, 1887	60	Pernin's shorthand.	Remington (2), Caligraph (1).	5 months	50	\$35.....	584
1888.....	5	Benn Pitman's phonography.	World	5 months	.....	\$5 per month.....	585
1885.....	217	Graham's phonography.	Caligraph (8)	2 years	39	Free	586
Jan. 1, 1889	15	Benn Pitman's phonography.	None .....	.....	.....	\$4 per month.....	587
Sept. 4, 1888	8	Sloan's shorthand.	Caligraph (1)	4 months	46	\$3 per month.....	588
Sept., 1889	3	Osgoodby's phonography.	Caligraph.....	20 weeks..	46	\$1 per week.....	589
Sept., 1889	12	Graham's phonography and Anderson machine.	Remington	15 months.	40	\$2 per month.....	590
Aug., 1889	20	Graham's phonography.	Caligraph and Hammond (total, 3).	About 5 months.	52	\$7.50 per month ..	591
Oct., 1888	*18	Benn Pitman's phonography.	.....	2 years	40	.....	592
Sept., 1885	25	Sloan - Duployan shorthand.	Remington (2) ...	3 months..	36	\$15.....	593
Dec. 9, 1889	20	Cross's shorthand.	Crandall.....	About 10 months.	42	\$40.....	594
Sept., 1888	8	Haven's phonography.	.....	5 months..	40	\$25.....	595
Sept. 9, 1889	12	Cross's shorthand.	Remington (1)...	3 to 4 mos.	38	\$2 per week.....	596
Dec., 1888	20	Gabelsberger's and Lehmann's stenographies.	None	2 to 6 mos.	42	Free	597
Nov., 1889	19	Thurmond's phonography.	.....	.....	.....	\$10.....	598
Sept., 1889	12	Barnes's phonography.	Caligraph.....	8 months..	40	\$5 for course.....	599
			do .....	.....	52	\$5 for 12 lessons ..	600
June, 1885	75	Benn Pitman's phonography.	Remington (2)...	7 to 12 mos.	52	\$5 for 4 weeks	601
Sept. 2, 1889	20	Sloan-Duployan shorthand.	World	7 weeks to 7 months.	40	\$20.....	602
1885.....	50	Isaac Pitman's phonography.	None	6 months..	40	\$40 for course.....	603
Sept. 4, 1887	400	Cross's shorthand, modified.	Remington (3), Caligraph (2).	12 weeks..	52	\$45 for 5 months ..	604
Jan. 13, 1890	*200	Sloan-Duployan shorthand, modified.	Remington (7), Caligraph (1), Yost (1).	3 to 6 mos.	52	\$50.....	605
.....	.....	Munson's phonography.	Remington, Yost, and Caligraph (8).	6 months..	52	\$40 for 6 months ..	606
Sept. 1, 1884	350	Lindsley's tachygraphy.	Remington (6)...	4 months..	52	\$1 per lesson per hour.	607
Oct. 1, 1881	*600	Any modification of Pitman's phonography.	Remington (6)...	4 months..	52	\$10 per month	608
Sept., 1888	6	Isaac Pitman's phonography.	Remington and Hammond (3)	6 months	40	\$10.....	609
1888.....	30	Benn Pitman's phonography.	.....	20 weeks..	40	\$5.....	610

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	MISSOURI—con'd.										
611	Kidder	Kidder Institute.....	Mary S. Foote	2	6	3					9
612	Liberty.....	William Jewell College, private instruction.	H. E. Cralle.....	1			*20				*20
613	Lowry City.....	Lowry City School ..	B. F. Edwards	1	7	6					13
614	Maryville	Maryville Commercial College.	Mrs. J. C. Ewing..	2	16	21	11				48
615	Moberly	Private instruction..	F. G. Ferris.....	1	2						2
616	Nevada.....	Nevada Business and Normal College.	D. H. Snoke.....	2	6	4	2	6			18
617	Otterville.....	Otterville shorthand and typewriting class, Otterville College.	Joseph F. Rutherford.	1	5	7	3		4	4	23
618	Plattsburg.....	Plattsburg College ..	J. W. Ellis.....	1	4						4
619	Rich Hill	Anderson class of shorthand, Welch's Commercial School.	W. E. Welch.....	1	5	2	2		11	6	26
620	do	Private instruction ..	F. L. Templeton ..	1			1	1			2
621	St. Aubert's	Public school	D. R. Phillips	1	1	5					6
622	St. Joseph	Bryant's Business College.	Miss Mattie S. Kelly.	2	27	46	16	4			93
623	do	Electric City Institute of Shorthand, Electric City Business College.	J. B. Moore	3							93
624	do	Private instruction ..	Fannie Churchill .	1	2	4					6
625	do	Ritner's Shorthand Institute; Ritner's Commercial College.	C. O. Johnson.....	2	21	43	5	1	10	32	112
626	do	St. Joseph Commercial College.	Rev. Bro. Francis .	3	50						50
627	St. Louis.....	Barnes's Shorthand and Business College.	Arthur J. Barnes .	5	16	109	8		10	13	156
628	do	Bryant & Stratton Business, Shorthand, and English Training School.	Thos. M. Rogers ..	3	52	81	18	3			154
629	do	Central Shorthand School; Central Business College.	Eldon Moran	5	50	75	10	10	*600	*700	*1,445
630	do	Gabelsberger Stenographer Verein; Concordia Seminary.	Geo. H. Steuber ...	1	8						8
631	do	Gaebler's Shorthand School.	A. N. Gaebler.....	1					*160	*40	*200
632	do	Hayward's Shorthand and Business College.	Mrs. J. E. Schott ..	3	18	73	6	14	1	1	88

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1888.....	12	Isaac Pitman's phonography and Cross's shorthand.	Remington (1) ...	6 to 8 mos.	36	\$12 for 3 months ..	611
Sept., 1888	*40	Isaac Pitman's phonography.	.....	20 weeks..	40	\$10.....	612
Nov., 1889	13	Benn Pitman's phonography.	Caligraph (1) .....	.....	36	\$5 per month	613
July 2, 1889	48	Sloan-Duployan shorthand.	Caligraph (2), Remington (1).	12 weeks..	51	\$35 and \$40.....	614
.....	.....	Graham's phonography.	Remington (1) .....	.....	.....	.....	615
Sept. 3, 1888	30	Benn Pitman's phonography.	Caligraph (1)	6 to 10 mos.	40	\$40.....	616
Oct., 1889	23	Sloan-Duployan shorthand.	Remington	3 to 6 mos. ....	.....	\$5 per month.....	617
Sept., 1880	*50	Benn Pitman's phonography.	.....	5 months .	38	\$20.....	618
.....	.....	Anderson's machine.	Caligraph.....	6 to 9 wks.	36	\$5 per month.....	619
May 2, 1890	4	Graham's phonography.	Remington (1) ...	.....	.....	\$4 per month	620
Sept., 1888	10	Lindsley's tachygraphy.	.....	.....	.....	Free	621
1883.....	about 260	Longley's phonography and Cross's shorthand.	Remington (1), Caligraph (2).	6 months .	50	\$35.....	622
June 17, 1890	93	Cross's shorthand.	Remington (7) ...	4 months .	52	\$12 per month	623
1884.....	.....	Benn Pitman's phonography.	Remington (2) ...	.....	.....	\$5 per month.....	624
1882.....	420	do	Remington (4) ...	3 to 6 mos.	51	\$30 for 6 months ..	625
1885.....	150	do	Remington (2) ...	2 years.....	40	\$30 to \$50 per year.	626
1882.....	1,170	Barnes's phonography.	Remington (8), Caligraph (9).	Average, 6 mos.	51	\$80 average expense to student.	627
.....	.....	Rogers' and Carpenter's phonography.	Remington (7), Caligraph (4), Hammond (3), Crandall (2).	6 months .	52	.....	628
Dec., 1888	*200 local.	Moran's phonography.	Remington, Yost, and others, about 7.	3 to 5 mos., local; about 1 year by mail.	51	Shorthand and typewriting, local, \$50; shorthand, by mail, \$20; trial course, \$2.	629
German about 1875; English Oct. 17, 1888.	a 17	Gabelsberger-Richter stenography.	None	20 lessons.	10	Free	630
1885.....	*1,000	Isaac Pitman's phonography.	Remington (2) ...	6 months .	.....	\$20, by mail.....	631
1876.....	1,200	do	Remington (21), Caligraph (1), Hammond (1), Yost (1).	do	52	\$65 for 6 months ..	632

a In English.

Statistics of instruction in shorthand in the United

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
MISSOURI—con'd.											
633	St. Louis (15th and Olive streets).	High School	D. H. Harris	1	31	39					70
634	St. Louis.....	Jones Commercial College.	Miss Clara E. Green.	2	20	60	10	5			95
635	do	Modern College.....	Geo. Wright	1	3	13	3	3			22
636	do	Mound City Commercial College.	Jas. P. Foeller	1	11	1	2				14
637	do	Perkins' and Herpel's Mercantile College.	Perkins and Herpel.	2	3	10	3	1			17
637½	do	Private instruction ..	Mrs. Emilie Boeddecker.	1			1				1
638	do	Private instruction, Educational Institute.	F. W. Haid	1	6	2					8
639	do	Private instruction ..	W. A. Kinsey.....	1			3	3	26	13	45
640	do	do	Mrs. L. E. Maek-lind.	1	2	6		1			9
641	do	do	Mrs. Dora D. Price	1		7		3			10
642	do	St. Bridget's High School.	Rev. Brother Novatian.	2	12						12
643	do	St. Joseph's Academy	Sister Mary Margaret.			9					9
644	St. Louis (16th and Pine streets).	St. Louis High School Addition.	D. H. Harris	1			25	55			80
645	St. Louis.....	St. Patrick's School..	Sister Lucida.....	1		6					16
646	do	St. Vincent's Girls' School.	Sister Frances Clare.	1		4					4
647	do	Sloan-Duployan Shorthand and Typewriting Institute.	A. C. Crain	3	49	55			(47)		15
648	Sedalia	Central Business College.	A. B. McDole	1	55	50	8	7			120
649	Stanberry	Stanberry Shorthand College; Great Northwestern Normal School.	E. N. Fesler.....	2	62	19			12	6	99
650	Tarkio.....	Tarkio College.....	L. L. Davis								
651	Walker.....	Private instruction ..	Rev. S. B. Ervin ..		1				1		2
652	Warrensburg...	State Normal School; Private instruction.	Kate R. Shockey..	3	10	15					25
MONTANA.											
653	Dillon	Private instruction..	A. L. Stone.....	1			2				2
654	Helena	Benn Pitman School of Shorthand	Jas. C. Quinn, PH. D., LL. D.	1			6		8	6	20
655	do	Phonographic Institute, Helena Business College.	Wesley E. Walker	2	15	50	7	5	12	11	100
656	Livingston	Private instruction..	Herbert E. Jones..	1					1	1	2
657	White Sulphur Springs.	do	F. E. Sprague.....	1	1	2	6	3	7	5	24

States for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1885.....	354	Isaac Pitman's phonography.	.....	40 weeks..	40	.....	633
Sept., 1885	250	do	Remington (8), Caligraph (3), Hammond (1).	6 months .	52	\$65 for 6 months ..	634
1887.....	57	do	Remington (2), Caligraph (2).	6 to 12 mos.	52	\$10 per month, day school; \$5 night school.	635
1889.....	14	White's and Benn Pitman's phonography.	Caligraph	6 months .	.....	\$65 6 months.....	636
July, 1883	.....	Isaac Pitman's phonography.	Remington and Caligraph.	do	52	\$65 for 6 months ..	637
Oct. 1, 1889	4	Gabelsberger's stenography.	None	do .....	.....	Free.....	637½
1883.....	30	Isaac Pitman's phonography.	Remington, Caligraph, and Hammond.	1 year	40	\$50.....	638
Dec., 1889	45	Isaac Pitman or other system of phonography.	.....	6 months .	.....	\$20 for mail course; \$30 for oral instruction.	639
Dec., 1865	15	Isaac Pitman's phonography.	Remington (1) ...	5 to 7 mos.	52	\$10 per month	640
.....	.....	Benn Pitman's phonography.	do .....	.....	.....	Various.....	641
1886.....	45	Benn Pitman's and Barnes's phonography.	do	3 years.....	40	\$3 per month.....	642
Sept., 1886	*20	Isaac Pitman's phonography.	do	1 to 2 years	40	\$40.....	643
About 1882..	*1,000	do	None	1 year	40	None	644
1886.....	14	do	Remington	do	40	\$40.....	645
Sept. 1, 1889	4	do	Yost (1)	6 to 10 mos.	40	\$40.....	646
1885.....	.....	Crain's Sloan-Duployan phonography.	Remington, Caligraph, and Yost.	3 to 5 mos.	52	\$50.....	647
.....	.....	Scott-Browne's and Graham's phonography.	Remington (6), Caligraph (2), Hammond (1).	6 months .	52	\$55 per 6 months shorthand and typewriting.	648
Jan. 1, 1885	350	Cross's shorthand.	Remington and Caligraph.	15 weeks..	46	\$1 per week.....	649
.....	15	Benn Pitman's phonography.	Remington and Hammond.	6 months .	.....	.....	650
.....	11	Sloan-Duployan shorthand.	.....	2 to 4 mos.	.....	\$16.....	651
1887.....	*250	Moran's phonography.	Remington	10 weeks..	40	\$15.....	652
.....	.....	Scott-Browne's phonography.	Yost .....	.....	.....	Free	653
Oct. 1, 1888	.....	Benn Pitman's phonography.	.....	13 weeks..	40	\$20 for course.....	654
1885.....	180	Benn Pitman's and Graham's phonography and Pernin's shorthand.	Remington, Caligraph, and Hammond (6).	6 months..	44	\$50 for 6 months ..	655
1889.....	6	Isaac Pitman's phonography.	.....	About 6 months.	.....	\$25.....	656
Nov. 10, 1889	12	Benn Pitman's phonography.	Remington (1) ...	20 weeks..	40	\$1 per week.....	657

Statistics of instruction in shorthand in the United States

[Estimates are indicated

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
NEBRASKA.											
658	Arborsville	Private instruction..	L. P. Ensign	1	2	3					5
659	Beatrice	Beatrice Business College.	Myra Lurface	1	10	15	2	2			29
660	Culbertson	Private instruction..	Rev. C. E. Fulmer.	1	5	2			15	12	34
661	Fairfield	Fairfield College.....	A. J. Mercer	1	2						2
662	Fremont	Fremont Normal School.	O. H. White.....	1	*25	*15				1	*41
663	do	Phonographic Institute, Fremont Business College.	James S. Curry...	2	23	20	11	1			55
664	Grand Island...	Grand Island Business College.	Mrs. A. M. Hargis	2	17	23					40
665	do	Private instruction..	D. N. Byerlee.....	1			3	2	1		6
666	Hastings	Academy of the Visitation.	Sister Mary Rose Summers.	2		3					3
667	Holdredge.....	Magic City Evening School.	L. W. Stayner....	1			20	5	4	6	35
668	Indianola.....	Private instruction..	Rev. J. T. Roberts	1	5	9					14
669	Kearney.....	Midway College of Business.	Will P. Hughes ..	1	4	13	1	5			23
670	Lincoln	Courier Class of Shorthand, "Capital City Courier."	Bert. E. Betts	2	25	25			5	2	57
671	Lincoln.....	Private instruction..	H. W. Quaintance..						1	3	4
672	do	School of Shorthand, Lincoln Business College.	D. R. Lillibridge..	2	25	49	2	4	2	3	83
673	McCook	McCook Business College.	Lillian E. Clark ..	1	1	2	5			1	9
674	Omaha.....	Omaha Business College.	C. C. Ewing	2	38	59	8	6	21	5	11
675	do	Omaha Commercial College.	F. W. Mosher	2	45	59					104
676	do	Omaha High School..	Louis J. Blake....	1	14	31					45
677	do	St. Catherine's Academy (Convent of Mercy).	Miss Corinne Collins.	6	15	112					137
678	do	Standard Shorthand School, Standard Business College.	Frank E. Bell	2	* 25	* 75	15	10	7	3	* 135
679	do	Young Men's Christian Association.	F. W. Mosher	1			15				15
680	Potter	Private instruction..	Oliver Van Olinda.	1	4	3					7
681	Republican City	do	C. E. Fulmer	1					2	4	6
682	Weeping Water.	do	Miss Emma Woodford.	1	7	5					12
683	Wymore.....	do	I. Hale, jr	1			6	2			8
NEW HAMPSHIRE											
684	Concord	Private instruction..	F. E. Shurtleff....	1	5	5	16	4			30
685	Manchester.....	do	A. E. Herrick	2			8	10			18
686	do	do	Howard P. Moore.	1				2	1	1	3
687	do	St. Joseph's High School.	Rev. Bro. Catus ..	2	35						35

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1888.....	12	Benn Pitman's phonography.	Caligraph (1)	6 to 12 mos.	....	\$15.....	658
Sept. 10, 1888	40	do	Remington (1), Caligraph (6).	6 months to 1 year.	52	\$35 per year.....	659
1884.....	*50	Isaac Pitman's phonography.	Caligraph (1)	6 months..	....	\$10 for 12 lessons..	660
Sept. 1889	2	Benn Pitman's phonography.	Caligraph.....	do	36	\$40 for 6 months ..	661
July 1, 1889	*40	do	Caligraph (1), Remington (2).	.....	50	\$15 for 10 weeks ..	662
April 2, 1888	99	Graham's phonography.	Remington (2), Hammond (1).	4 to 9 mos.	52	\$30 for 3 months..	663
Sept., 1888	60	Cross's shorthand.	Remington (2)...	3 to 4 mos.	44	\$25 for 3 months .	664
July, 1886	26	Graham's phonography.	Remington (2)...	6 mos. to 1 year.	52	50 cents per lesson.	665
1883.....	11	do	Remington (1)...	3 to 9 mos.	40	\$10 per month	666
July 10, 1889	25	Benn Pitman's phonography.	Hammond, Yost, and Remington.	6 mos.	....	\$50.....	667
March, 1890	14	Lindsley's tachygraphy.	Caligraph .....	.....	....	50 cents per lesson.	668
Oct. 15, 1889	.....	Cross's shorthand.	Yost (3)	4 to 6 mos.	51	\$15 per month	669
May 3, 1890	50	Moran's phonography.	Remington (3), Caligraph (1), Yost (3).	.....	....	\$10 per month	670
.....	.....	do	Remington	4 to 6 mos.	....	.....	671
1884.....	.....	Benn Pitman's phonography.	Remington (2), Caligraph (2).	7 months..	52	\$60.....	672
Feb. 17, 1890	9	Cross's shorthand.	Remington (2)...	12 weeks..	52	Full course \$70 ...	673
Apr. 20, 1889	129	Munson's phonography.	Caligraph (1), Remington (10).	6 to 10 mos	52	\$50 for 6 months ..	674
May, 1887	210	Benn Pitman's and Graham's phonography.	Remington, Yost, and Caligraph (12).	4 to 8 mos.	52	\$15 per month, \$60 complete course.	675
Sept., 1887	135	Munson's phonography.	None	1 year.....	42	Free	676
Sept. 2, 1880	127	Pernin's shorthand.	Yost (2), Remington (4).	3 months .	40	do	677
.....	.....	Isaac Pitman's phonography and Cross's shorthand.	Remington (7).	6 months .	52	\$40 for 6 months ..	678
Nov., 1888	75	Benn Pitman's and Graham's phonography.	None .....	.....	25	Free to members of association.	679
Jan. 1, 1890	17	Benn Pitman's phonography.	International (1).	5 to 12 mos.	52	\$20.....	680
1884.....	120	Isaac Pitman's phonography.	Caligraph (1)	1 year.....	52	\$20.....	681
.....	.....	Benn Pitman's phonography.	Remington	3 months..	....	\$15 for course.....	682
Nov. 1, 1889	8	do	do .....	.....	32	50 cents per lesson	683
Oct., 1889	30	do	Remington (2) ...	25 to 30 lessons.	....	75 cents per lesson.	684
1880 .....	.....	Isaac Pitman's phonography.	Hammond	8 months..	....	do	685
Oct., 1887	23	Lindsley's tachygraphy.	Remington (1) ...	2½ to 4 mos	24	50 cents per lesson.	686
Jan., 1887	78	Benn Pitman's and Graham's phonography.	Hammond (1)....	2 and 3 years.	39	Free	687

a Isaac Pittman's system was introduced November, 1890.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW HAMPSHIRE—cont'd.										
688	Nashua.....	Young Men's Christian Association.	Robert W. Matthews.	1	.....	.....	9	.....	.....	.....	a 9
689	Portsmouth	Smith's Academy and Commercial College.	Miss Eleanor C. Spinney.	1	.....	10	3	7	.....	.....	20
	NEW JERSEY.										
690	Bordentown	Bordentown Military Institute.	Frederic M. McGaw.	1	5	.....	.....	.....	.....	.....	5
691	Bridgeton	South Jersey Institute.	Robert L. Himes..	1	20	10	.....	.....	.....	.....	30
692	Camden	The Chas. M. Abrahamson Commercial Institute.	J. Howard Brouse.	1	.....	.....	19	28	.....	.....	47
693	Elizabeth.....	Lansley Business College.	J. H. Lansley, PH. D.	1	5	42	10	5	.....	.....	62
694	Hoboken	Private instruction..	Augusta J. Sachs.	1	.....	.....	.....	8	.....	.....	8
695	Jersey City.....	Jersey City Business College.	Fannie J. Mansley	1	6	30	17	13	.....	.....	66
696	do	Private instruction..	Martha B. Fraser.	1	.....	.....	.....	1	.....	1	2
697	do	do	Walter Pfeiffer...	1	2	1	.....	.....	.....	.....	3
698	Millville.....	Young Men's Christian Association.	Ellsworth Vaman.	1	.....	.....	17	.....	.....	.....	17
699	Mount Holly ...	Meunt Holly Academy.	Henry M. Walradt	1	.....	2	.....	.....	.....	.....	2
700	Newark	Coleman National Business College.	Miss Minnie K. Wickert.	2	9	36	.....	.....	.....	.....	45
701	do	New Jersey Business College.	Miss L. W. Blue ..	2	.....	.....	10	15	.....	.....	25
702	do	Private instruction..	C. W. Eakeley .....	.....	.....	.....	2	1	.....	1	4
703	do	Women's Christian Association.	Ida C. Kennedy...	2	.....	25	.....	.....	.....	.....	25
704	Orange	Evening school of shorthand.	C. A. Robinson....	1	.....	.....	2	2	.....	.....	4
705	Paterson	Paterson Classical Institute and Business College.	Charles F. Gokey.	2	12	18	12	18	.....	.....	60
706	do	Private instruction ..	Geo. Oakley.....	1	.....	.....	6	1	.....	.....	7
707	Plainfield.....	do	Charles A. Case...	1	.....	.....	3	10	.....	.....	13
708	do	do	Lizette P. Harrison.	1	.....	3	.....	.....	.....	.....	3
709	do	do	Miss Laura L. Runyon.	1	.....	5	.....	.....	.....	.....	5
710	do	Young Men's Christian Association.	Joseph A. Robinson.	1	.....	.....	31	.....	.....	.....	31
711	Princeton.....	Private instruction ..	Herman S. Davis ..	1	6	10	.....	.....	1	3	20
712	do	do	J. S. Roddy	1	3	1	.....	.....	.....	.....	4
713	Rahway	do	Wm. A. Ransom ..	1	.....	.....	7	2	2	2	13
714	Trenton	Trenton Business College.	Mrs. Ida M. Muse.	2	25	42	6	4	1	1	79

a For year 1890, 1891, 13 males received instruction; average attendance, 6.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Nov., 1889	22	Munson's phonography.	.....	20 lessons.	21	Membership in Association \$2.	688
Sept., 1889	20	Benn Pitman's phonography.	Remington	3 to 5 mos.	40	\$15 per month	689
1885.....	*25	do	Remington (1) ...	.....	40	.....	690
1887.....	50	Benn Pitman's and Moran's phonography.	Hammond (2)....	30 weeks..	40	\$15.....	691
Sept., 1887	*100	Haven's phonography.	Remington (5) ...	6 months	43	\$5 per month	692
1872.....	.....	Cross' shorthand.	Yost (10), Remington (2).	2 to 4 terms	40	\$30 for term of 10 weeks.	693
Jan. 2, 1889	10	Burnz's phonography.	Remington	5 months ..	.....	\$8 per month	694
Sept., 1887	99	Munson's phonography.	Hammond (1), Caligraph (1), Remington (8).	.....	42	\$75 per year	695
1879.....	.....	Lindsley's tachygraphy.	.....	.....	.....	50 cents per hour ..	696
Sept., 1888	3	do .....	.....	6 months ..	52	75 cents per lesson.	697
Oct., 1888	.....	Isaac Pitman's phonography.	None	6 months ..	.....	Membership in Association (\$5).	698
1886.....	6	Benn Pitman's phonography.	Remington (1) ...	.....	37	\$350 (including board, fuel, and all expenses) for academic course.	699
1881.....	450	Scott-Browne's phonography.	Remington, Caligraph, Hammond, and Crandall (12).	3 to 4 mos.	52	\$40 for 4 months ..	700
1875.....	300	Benn Pitman's phonography.	Remington and Caligraph.	.....	52	\$10 per quarter ...	701
.....	.....	Graham's phonography.	Remington	1 year .....	.....	\$25 for course.....	702
Mar. 8, 1886	130	Munson's phonography.	Remington (6) ...	6 months ..	40	\$2 per week.....	703
Oct. 15, 1889	4	Scott-Browne's phonography.	None .....	.....	.....	\$50 for 6 months ..	704
Sept. 1, 1889	30	Benn Pitman's, Graham's, and Scott-Browne's phonography.	Caligraph (1), Yost, 2.	6 months ..	40	\$50, stenographic course.	705
May, 1889	8	Isaac Pitman's phonography.	Remington	do	52	\$30, complete course	706
Nov. 10, 1889	13	Benn Pitman's phonography.	do	About 5 months.	.....	50 cents per lesson.	707
June 1, 1888	.....	do	Remington and Hammond.	.....	.....	\$15 per quarter....	708
1884 .....	.....	do	Remington (1)...	6 months ..	.....	50 cents per lesson.	709
Dec., 1889	31	Isaac Pitman's phonography.	.....	26 weeks..	26	Membership in Association, \$2.	710
.....	.....	do	Remington	40 lessons.	.....	\$30 for course.....	711
.....	.....	Scott Browne's phonography.	.....	.....	.....	.....	712
Jan., 1883	15	do	Caligraph (1)	6 to 9 mos.	52	\$25 for 3 months private instruction; \$10 for 3 months in class.	713
Sept., 1882	330	Munson's phonography.	Remington (4), Caligraph (1), Hammond (1.)	6 months ..	42	\$25 per quarter ...	714

Statistics of instruction in shorthand in the United States

(Estimates are indicated)

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
NEW MEXICO.											
715	Albuquerque...	Private instruction..	Miss L. A. Ferry..	1			3	5			8
716	Las Vegas	Las Vegas Academy ^a	C. H. Creighton...	1	6	.....	.....	.....	.....	.....	6
717	do	Loretto Academy....	Sister Ignatia	2	.....	7	.....	.....	.....	.....	7
718	Santa Fe	do	J. E. Morrison	2	.....	7	.....	.....	.....	.....	7
719	do	St. Michael's College.	Rev. Bro. Amian..	2	19	.....	.....	.....	.....	.....	19
720	Socorro	Mount Carmel Con-vent.	Sister Adelaide...	1	.....	6	.....	.....	.....	.....	6
NEW YORK.											
721	Albany	Christian Brothers' Academy of Man-hattan College.	Rev. Bro. Famian .	5	220	.....	.....	.....	.....	.....	220
722	do	Northrop's Commer-cial College.	Mary A. Eggleston	1	1	3	.....	.....	.....	1	5
723	do	Private instruction ..	Edwin A. Smith ..	1	.....	.....	16	.....	.....	.....	16
724	do	School of shorthand and typewriting, Albany Business College.	B. S. Hoit.....	4	67	138	31	9	5	13	263
725	do	School of shorthand and typewriting.	Miss G. A. M. Walter.	3	20	40	50	4	.....	1	115
726	do	Speir's Institute of Shorthand.	S. G. Speir.....	4	25	45	.....	.....	2	3	75
727	do	Young Men's Chris-tian Association.	Edwin A. Smith ..	1	.....	.....	10	.....	.....	.....	10
728	do	Young Women's Christian Associa-tion.	Grace S. Warner..	2	.....	.....	.....	21	.....	.....	21
729	Auburn.....	Private instruction..	Geo. H. Macomber.	1	.....	.....	5	3	.....	.....	8
730	do	do	Mrs. Wm. Price...	1	.....	5	.....	.....	.....	.....	^b 5
731	do	do	C. B. Quick	1	.....	.....	4	4	.....	.....	8
732	do	do	S. C. Tallman	1	2	11	.....	.....	.....	.....	13
733	do	Wheeler's Phono-graphic School.	G. H. Wheeler	2	1	5	.....	.....	.....	.....	6
734	Batavia.....	Batavia Stenographic Institute.	Miss Sarah M. Blount.	2	3	12	21	10	.....	.....	27
735	Binghamton	Lowell Business Col-lege.	Helen Hiltz	2	6	41	.....	7	.....	.....	54
736	do	N. M. Clarke's School of stenography.	Miss N. M. Clarke.	...	5	36	9	12	.....	.....	62
737	do	The Riley Institute of Shorthand, Riley Business College.	J. F. Riley, A. M., LL. D.	3	30	50	13	17	.....	.....	110
738	Brooklyn	Browne's Brooklyn Business College.	Miss Camille O'Connell.	2	30	75	35	10	.....	.....	150
739	do	Claghorn's Bryant & Stratton Business College.	Miss Kate Gifford.	1	4	16	.....	.....	.....	.....	20

^a Helen A. Carter taught a class of 15 pupils, beginning September 1, 1890; system, Cross's shorthand.^b Some of these pupils were taught in Groton, N. Y.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Jan. 20, 1890	-----	Benn Pitman's phonography.	Yost.....	-----	-----	\$5 per month.....	715
1889.....	6	Isaac Pitman's phonography.	Remington	6 to 9 mos.	38	\$40	716
Mar. 1, 1890	7	Pernin's shorthand.	do	6 weeks to 3 mos.	40	-----	717
June 15, 1890	7	Benn Pitman's phonography.	do	-----	-----	50 cents per lesson.	718
1882.....	138	do	Hammond, Hall, and Remington.	2 years ...	44	-----	719
Sept., 1889	6	Benn Pitman's phonography.	-----	3 months..	-----	\$1 per month	720
1880.....	-----	Benn Pitman's phonography.	Caligraph, Remington, and Hammond (20).	-----	40	\$60, stenography and typewriting.	721
1888.....	*50	do	Remington, Caligraph, and Hammond.	1 year	40	\$20 per 10 weeks..	722
1877.....	*1,200	do	Remington	-----	-----	50 cents per lesson	723
		do	Caligraph (20), Remington (10), Hammond (1).	6 months..	52	\$30 per term of 13 weeks.	724
Sept. 8, 1884	500	do	Remington (3), Caligraph (2).	1 year.....	40	\$5 per month	725
1877.....	*400	Benn Pitman's phonography, modified.	Remington	4 to 6 mos.	50	\$50.....	726
		Benn Pitman's phonography.	do	-----	-----	-----	727
Oct. 14, 1889	21	do	do	-----	26	\$1 for course.....	728
1886.....	17	do	do	50 lessons.	-----	75 cents per lesson	729
		Scott-Browne's phonography.	Crandall.....	3 to 4 mos.	-----	50 cents for two hours.	730
May 1, 1890	8	Munson's phonography.	-----	-----	-----	50 cents per private lesson.	731
1886.....	27	Osgoodby's phonography.	Remington (3), Smith (1).	1 year.....	52	-----	732
1878.....	*100	Benn Pitman's phonography, modified.	Caligraph	40 weeks..	-----	\$30.....	733
Sept., 1887	43	Benn Pitman's phonography.	Remington (3)...	5 to 6 mos.	45	\$35 per term.....	734
1888.....	80	Graham's phonography.	Remington (3), Caligraph (3), Hammond (2), Yost (2).	6 months..	52	\$25 for 3 months ..	735
Feb. 9, 1887	156	Benn Pitman's phonography.	Remington (2)...	3 to 8 mos.	52	\$10 per month	736
July 20, 1886	*200	do	Hammond, Remington, Smith, Caligraph, Crandall, and Yost.	5 to 12 mos.	40	\$50.....	737
1880.....	650	Benn Pitman's phonography, "revised."	Remington (9), Caligraph (3), Yost (1), Hammond (2).	4 to 8 mos.	50	\$50 for full course.	738
Sept., 1887	*60	Munson's phonography.	Remington	30 weeks..	-----	\$30 for 10 weeks...	739

Statistics of instruction in shorthand in the United States

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW YORK—con.										
740	Brooklyn	Ellinwood's School of Phonography and Typewriting.	T. J. Ellinwood ...	5	20	57	46	13	3		139
741	do.	Evening High School.	James H. Fish....	1	....	....	*20	*30	....	....	*50
742	do.	Franciscan School of Shorthand, St. Francis College.	Rev. Bro. Clement.	3	20	....	5	....	....	....	25
743	do.	Instruction by mail..	J. E. Dunn.....	1	....	....	....	....	35	....	35
744	do.	Nativity Institute and Nativity Academy.	John M. Sheridan.	1	*25	*40	....	....	....	....	*65
745	do.	Powell's Private School of Shorthand and Typewriting.	Mrs. Sara L. Powell.	2	3	23	6	10	....	....	42
746	do.	Pratt Institute	Norman P. Hefley.	8	4	110	39	90	....	....	243
747	do.	Private instruction ..	Mrs. E. W. Balcom.	1	....	....	16	25	....	....	41
748	do.	do.	S. W. Bergen	1	....	....	4	2	....	....	6
749	do.	do.	C. E. Coffin	1	1	2	....	....	....	....	3
750	do.	do.	J. S. Coyle	1	5	1	....	....	....	....	6
751	do.	do.	A. Nichols.....	1	....	....	3	2	....	....	5
752	do.	do.	Mrs. Emma F. Pettengill.	2	....	12	....	3	....	....	15
753	do.	Sacred Heart Institute (St. Francis College).	Rev. Bro. Clement.	12	250	....	4	....	....	....	254
754	do.	St. Charles School (St. Francis College).	Rev. Bro. Athanasius.	1	100	....	....	....	....	....	100
755	do.	St. Francis College ..	Rev. Bro. James, O. S. F.	4	40	....	6	....	....	....	46
756	do.	St. James Commercial School.	Rev. Bro. Ambrose.	3	76	....	....	....	....	....	76
757	do.	St. Joseph's School (St. Francis College).	Rev. Bros. Vincent and Anthony, O. S. F.	15	15	....	23	....	....	....	23
758	do.	St. Paul's Parochial School.	Rev. Bro. Dominic.	1	41	....	....	....	....	....	41
759	do.	St. Patrick's Academy.	Rev. Bro. Peter, O. S. F.	1	60	....	....	....	....	....	60
760	do.	St. Vincent de Paul's Academy.	Rev. Bro. Joachim, O. S. F.	1	90	....	....	....	....	....	90
761	do.	School of Stenography and Typewriting.	Chas. F. Young...	3	35	118	38	19	3	4	217
762	do.	Wright's Business College.	Mrs. Bertha Barrow Koeke.	2	18	98	40	14	....	....	170
763	do.	Young Men's Christian Association.	T. J. Ellinwood...	3	....	....	153	....	....	....	153

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1876.....	*1,200	Graham's phonography.	Remington (8)...	3 to 6 mos.	52	\$10 for 20-lessons, 20 for course in shorthand and typewriting.	740
.....	.....	Fish's phonography.	.....	.....	.....	.....	741
Sept. 7, 1879	.....	Benn Pitman's phonography.	Remington (4)...	3 years....	40	Included in general tuition.	742
Jan. 17, 1890	35	Isaac Pitman's phonography.	.....	6 months..	.....	\$15.....	743
Oct. 1, 1889	*65	Benn Pitman's and Barnes's phonography.	Remington (3)...	44 weeks..	44	.....	744
Nov. 1, 1886	152	Isaac Pitman's phonography.	Caligraph (4)	6 months..	.....	\$10 per month	745
Feb. 10, 1888	334	Benn Pitman's phonography.	Remington (22), Hammond (2), Caligraph (1), Yost (1).	9 months..	36	\$13 day; \$9 evening for term of 3 months, shorthand and typewriting.	746
1887.....	200	Isaac Pitman's phonography.	Remington and Caligraph.	6 to 8 mos.	.....	\$12 per month	747
Oct. 1889	6	Lindsley's tachygraphy.	None	6 months..	.....	Free	748
.....	.....	Munson's phonography.	Remington	6 months to 1 year.	.....	.....	749
July, 1887	40	White's phonography.	Remington (1)...	4 to 7 mos.	.....	\$75.....	750
Jan. 1, 1890	5	Benn Pitman's phonography.	do	6 months..	40	\$20.....	751
1886.....	*30	Munson's phonography.	Remington (5) ...	3 to 6 mos.	.....	\$40, stenography and typewriting.	752
1878.....	2,500	Benn Pitman's phonography.	Remington, Caligraph, and Hammond (30).	3 years ...	42	No extra charge for stenography.	753
Oct. 1, 1887	200	do	Caligraph (2) ....	.....	42	Free	754
Sept., 1872	300	Benn Pitman's, White's, and Munson's phonography.	Remington	2 years ...	40	Included in college course; 50 cents per lesson for evening students.	755
1885.....	*400	Graham's phonography.	Remington (4), Caligraph (2), Hammond (2).	3 years ...	28	Free.....	756
Oct., 1889	23	Benn Pitman's phonography.	Remington, Caligraph, Hammond, Hall, and Yost (30).	2 years ...	40	.....	757
Sept., 1889	41	Benn Pitman's phonography.	Crandall (1)	10 months..	.....	Free	758
Sept., 1886	200	Benn Pitman's phonography.	Remington, Hammond, and Caligraph (6).	2 years ...	40	.....	759
Sept. 2, 1889	90	do	Remington (3), Caligraph (1).	.....	40	Free	760
Mar., 1885	.....	Benn Pitman's phonography; also Graham's and Munson's phonography when required.	Remington, Caligraph, and Yost (12).	3 months..	.....	\$50.....	761
1873.....	.....	Munson's phonography.	Remington and Caligraph (25).	7 to 10 mos.	40	\$30 per term of 10 weeks.	762
1875.....	*1,500	Graham's phonography.	Remington (4).	10 to 12 mos	22	Membership in association, \$2.	763

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW YORK—con.										
764	Brooklyn	Young Woman's Christian Association.	Mrs. Emma F. Pettengill.	1	.....	.....	.....	20	.....	.....	20
765	Buffalo	Canisius College.....	Chas. Falk, s. J., succeeded by Oswald Mueller, s. J.	1	25	.....	.....	.....	.....	.....	25
766	do	Caton's Business College.	Mrs.D.F.Haymes.	2	6	24	4	16	.....	.....	50
767	do	College of Commerce.	C. E. McKee.....	6	50	150	50	25	100	100	475
768	do	Mitchell's School of Phonography.	James Mitchell ...	1	3	7	8	19	.....	1	38
769	do	National School of Stenography, Buffalo Business University.	Mrs.H.J.Behrends	2	1	25	.....	75	.....	5	20
770	do	Private instruction ..	Wm. H. Miner	1	.....	.....	3	2	.....	.....	5
771	do	St. Joseph's College .	Rev. Bro. Amator Leo.	4	62	.....	.....	.....	.....	.....	62
772	do	Slocum's Shorthand School.	Mary A. Burns...	2	30	40	.....	.....	4	6	80
773	do	Young Men's Christian Association.	Miss A. M. Pear-sall.	1	.....	.....	20	.....	.....	.....	20
774	Chautauqua	Chautauqua Summer School and Correspondence School of Phonography, the Chautauqua University.	Rev. William D. Bridge.	2	8	12	.....	.....	8	18	46
775	Claverack	Claverack College and Hudson River Institute.	Samuel E. Rusk ...	.....	1	1	2	.....	3	1	8
776	Clinton	Clinton Grammar School.	E. W. Stanley.....	1	1	.....	.....	.....	.....	.....	1
777	do	Private instruction..	Edward Stanley ..	1	3	.....	.....	.....	.....	.....	3
778	Cortland.....	do	Miss H. M. Myers.	1	.....	2	.....	1	.....	.....	3
779	do	Young Men's Christian Association.	Harriet C. Henry .	1	.....	.....	15	.....	.....	.....	15
780	Elmira.....	Elmira Shorthand College.	J. W. Roberts.....	3	44	55	17	2	7	.....	125
781	do	New York State Reformatory.	S. V. Ferguson....	1	150	.....	.....	.....	.....	.....	150
782	do	Private instruction ..	H. D. Wilcox	1	1	5	.....	.....	.....	1	7
783	do	Shorthand Institute, School of Commerce.	Lillian Lowmar...	3	40	80	9	1	5	20	155

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Feb.. 1890	20	Munson's phonography.	.....	.....	40	\$1 to association	764
Sept., 1888	*50	Duployan shorthand.	Caligraph (2), Remington (1).	5 months	40	\$5.....	765
Oct. 1, 1889	50	Cross's shorthand.	Remington, Caligraph, Hammond and Smith (6).	3 to 5 mos.	52	\$75 for course; \$25 for 3 months.	766
1887.....	.....	McKee's shorthand.	Remington, Caligraph, Hammond, and Smith.	Average 4 months.	52	\$75 full course	767
.....	*200	Graham's and Scott-Browne's phonography.	Remington (4) ...	3 to 6 mos.	52	\$25 to \$75 for course.	768
June 18, 1889	68	Cross's shorthand.	Remington (1), Hammond (1), Caligraph (1), Yost (1).	5 to 8 mos.	52	\$50 full course; \$40 6 months.	769
1879.....	19	Isaac Pitman's phonography.	Remington (1) ...	6 months	.....	\$10 per quarter ...	770
.....	.....	Barnes's phonography.	Caligraph (2)	2 years	40	\$50 per annum	771
Jan. 1, 1876	.....	Benn Pitman's, Graham's, Munson's, and Bishop's phonography.	Remington (4), Caligraph (1), Hammond (1), Yost (1).	6 to 10 mos.	52	\$50 full course; \$10 per month.	772
1880.....	(a)	Cross's shorthand.	Remington (1) ...	40 lessons.	20	Membership in association.	773
July, 1880	500	Graham's phonography.	Caligraph.....	4 weeks at Chautauqua.	.....	\$10 per course of 20 lessons; \$12 per course of 20 lessons by mail.	774
.....	.....	Benn Pitman's phonography.	Remington (3) ...	1 year	39	\$39 to \$78	775
Jan., 1890	1	Munson's phonography.	Remington (1) ...	2 years....	38	\$20 to \$48	776
Oct. 1, 1889	3	do	Remington (1), International (1).	6 months	.....	50 cents per lesson; \$2 per week.	777
July, 1887	3	Benn Pitman's phonography.	Remington and Caligraph.	do	24	\$10 per month	778
Oct., 1889	15	Graham's and Benn Pitman's phonography.	Remington	do	16	Free	779
Nov., 1888	138	Graham's, Benn Pitman's, Isaac Pitman's, Munson's and Scott-Browne's phonography.	Remington (6), Caligraph (1).	6 months average.	52	\$10 per month	780
Mar., 1887	.....	Graham's phonography.	Remington .....	.....	52	Free	781
Sept. 1, 1884	45	Munson's phonography.	Remington (1) ...	3 to 6 mos.	52	\$50 for 6 months; \$30 for 3 months.	782
Sept. 1, 1880	300	Munson's, Graham's, Isaac Pitman's, and Bishop's phonography.	Hammond and Remington (8).	6 months or more.	51	\$50 for course, or \$10 per month.	783

a About 15 each year.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW YORK—CON.										
784	Elmira.....	Warner's Business College.	Addie M. Robinson	1	.....	.....	.....	.....	.....	.....	.....
785	Fairfield.....	Fairfield Seminary...	Frank L. Warne...	2	15	10	.....	.....	.....	.....	25
786	Fort Edward .	Fort Edward Collegiate Institute.	Miss Mary Deyoe.	1	.....	*8	.....	.....	.....	.....	*8
787	do	Private instruction ..	Henry G. King ..	1	5	1	.....	.....	.....	.....	6
788	do	do	E. M. Quackenbush, M. D.	1	3	2	1	1	2	.....	9
789	Fort Plain.....	Porter Business College of Clinton Liberal Institute.	F. H. Decker.....	1	.....	.....	.....	.....	.....	.....	15
790	Geneva.....	Geneva Business College and Shorthand Institute.	Bertha Barnum...	2	1	1	.....	.....	.....	.....	2
791	Glens Falls.....	Private instruction ..	C. F. King	1	2	2	1	.....	.....	.....	5
792	Homer.....	do	Mrs. Florence Brush.	1	2	2	.....	.....	.....	.....	4
793	Hornellsville ...	Hornellsville Business and Shorthand College.	Rose C. Williams .	1	36	32	7	1	.....	.....	76
794	Ithaca.....	Wyckoff's Phonographic Institute.	Mrs. M. A. Adsit..	3	10	10	.....	.....	.....	.....	20
795	Jamestown.....	Jamestown School of Phonography, Jamestown Business College.	J. E. McLean	1	5	25	.....	.....	.....	.....	30
796	Johnstown.....	Private instruction ..	E. A. Garlock.....	1	.....	.....	10	.....	.....	.....	10
797	Kingston.....	Spencer's Business College.	B. H. Spencer.....	1	30	20	20	5	10	13	98
798	Le Roy.....	Private instruction ..	O. W. Howe.....	2	6	9	.....	.....	.....	.....	15
799	Lima.....	Eclectic Shorthand College, Genesee Wesleyan Seminary.	Frank A. Bateman	3	25	75	.....	.....	(a)	.....	140
800	Lockport.....	Private instruction ..	W. R. Culver	1	2	4	.....	.....	.....	.....	6
801	do	Warren's College of Shorthand, Haven's College of Philadelphia.	E. L. Warren	2	8	16	6	5	1	.....	36
802	New Brighton, Staten Island.	Brighton Heights Seminary.	Miss Charlotte A. Woodward.	1	1	2	1	1	.....	.....	5
803	Newburg.....	Private instruction ..	Chas. A. Brockaway.	1	9	5	1	.....	6	1	22
804	do	do	S. Fred. Brown....	1	1	.....	.....	.....	.....	.....	1
805	do	do	J. Thorne Ronk...	1	.....	.....	1	.....	.....	.....	1
805½	New Rochelle...	do	Miss Grace E. Towndrow.	1	.....	.....	.....	.....	.....	.....	15
806	New York b....	Academy of the Holy Rosary.	Sister M. Eugenie.	1	.....	8	.....	.....	.....	.....	8
807	New York, 343 East Twenty-third street.	Boys' Club of Calvary Parish Phonographic Class.	T. Channon Press.	1	.....	.....	10	.....	.....	.....	10

a Total by mail, 40.

b Hon. John Jasper, superintendent of schools of New York City, states that shorthand was introduced can not be computed. Eleven teachers were employed in 1889-'90—Messrs. Byron, Brennan, Mour—and instruction was given to 653 persons, 128 of whom were females. Various systems of shorthand. The course covers three terms, which consist of twenty-four weeks each in evening high schools and

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1882		Bishop's, Pitman's, and Graham's phonography.	Remington (4), National (1).	4 to 6 mos.	52	\$25 for 4 months ..	784
Sept., 1885	200	Lindsley's tachygraphy.	Remington, Yost, and Smith (6).	1 year.....	39	\$200 per year (boarding school).	785
Sept., 1889	*8	Benn Pitman's phonography.	Hammond (1), Caligraph (1).	1 year.....	36		786
Jan. 1, 1889	6	Graham's phonography.	Caligraph (2)	3 months..	13		787
Mar., 1882	*50	do	Remington and Caligraph.	do	52	\$25 for 3 months ..	788
Sept. 9, 1887		Lindsley's tachygraphy.	Remington	1 year.....	39	\$10 per term	789
1885	12	Benn Pitman's and Graham's phonography.	Remington and Caligraph.	3 months..	40	\$15 per quarter ...	790
Jan., 1885	25	do	Hammond (1)	3 to 6 mos.		50 cents per lesson.	791
1888	10	Graham's phonography.	Caligraph	8 months..		\$10 for 20 lessons..	792
Nov. 1, 1888	100	Benn Pitman's and Graham's phonography.	Hammond (2), Remington (1), Caligraph (1).	4 to 6 mos.	52	\$50 for course.....	793
1867		Graham's phonography.	Remington (10) ..	5 to 10 mos		\$30 for 3 months ..	794
Jan. 1, 1889	50	Graham's, Munson's, Isaac Pitman's and Benn Pitman's phonography.	Caligraph (4)	6 months..	40	\$50.....	795
Jan., 1890	10	Lindsley's tachygraphy.	Caligraph.....			25 cents per lesson.	796
		Benn Pitman's phonography.	Remington, Hammond, and Caligraph (5).	6 months..	44	\$30 per quarter ...	797
Jan., 1886	*100	do	Crandall	do		50 cents per lesson, \$35 for course.	798
1886	250	Cross's shorthand.	Caligraph (4), Remington (2), Yost (2).	Average, 3 mos.	39	\$30 for 3 months ..	799
Jan. 1, 1881	75	Munson's phonography.	Remington (4) ...	6 months..		\$25.....	800
Feb., 1890	36	Haven's phonography.	Remington (3) ...	3 months..	52	\$30.....	801
1888		Burnz's phonography.					802
Oct., 1888	27	Graham's phonography.	None		52	30 cents per lesson for corresponding style.	803
		Graham's phonography.					804
		do		3 months..		\$15 for 3 months ..	805
	8	Benn Pitman's phonography.	Hammond			\$7 per month for 2 lessons a week.	805½
Sept. 18, 1889		Towndrow's stenography.	Remington	4 months..			806
Nov., 1889	10	Isaac Pitman's phonography.	Remington (1) ...	3 months..	35	Free.....	807

duced in evening high schools in 1868 and in other evening schools in 1888. The total number Fox, Katz, Ripinsky, Schekeler, Sheridan, and Tully, and Misses Hawthorn, McClennen, and Seyhand were taught. No typewriters are used and no branches taught in connection with shorthand. of twenty weeks in other evening schools.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW YORK—con.										
808	New York	Cooper Union.....	Miss Mary E. Robbins.	1	.....	50	.....	.....	.....	.....	50
808½	do	Paine Uptown Business College.	.....	3	24	39	20	7	.....	.....	90
809	do	De La Salle Institute.	Rev. Bro. Pompian	3	45	.....	.....	.....	.....	.....	45
809½	New York, 68 Wall street.	Fish's School of Shorthand.	James H. Fish	2	32	13	.....	.....	1	50	195
810	New York, Norfolk street.	East Side Evening High School.	Eugene Sheridan .	1	.....	.....	62	.....	.....	.....	62
811	New York, Eighty-seventh street.	Evening Grammar School, No. 37.	Isaac B. Ripinsky.	1	.....	.....	40	.....	.....	.....	40
812	New York, 42 First street.	Evening Grammar School, No. 79.	Chas. Schekeler...	1	.....	.....	*50	.....	.....	.....	*50
813	New York, 124 West Thirtieth street.	Evening High School.	Mark J. Kätz.....	.....	.....	.....	175	.....	.....	.....	175
814	New York, East Fifty-seventh street.	Female Senior Evening School, No. 59.	Abbie McClennen	1	.....	.....	60	.....	.....	.....	60
815	New York	Female Stenographic and Typewriting Class, General Society of Mechanics and Tradesmen of New York.	William L. Mason.	1	.....	.....	60	.....	.....	.....	60
816	New York and Newark, N. J.	Frank Harrison's Schools.	Frank Harrison ..	...	*117	*233	*17	*33	*66	*144	*600
817	New York.....	German-American Stenographic Society, "Gabelsberger."	Jacob Marcus.....	1	.....	.....	.....	.....	.....	.....	6
818	New York, One hundred and twenty-fifth street.	Harlem Evening High School.	Matthew H. Tully	1	.....	.....	77	.....	.....	.....	77
819	New York.....	Instruction by mail..	Thos. S. Lewis	1	.....	.....	.....	.....	2	1	3
820	do	Kimball's School of Shorthand and Typewriting.	J. N. Kimball	1	300	20	.....	.....	4	7	331
821	do	La Salle Academy ...	Rev. Bro. Lucidius	4	52	.....	.....	.....	.....	.....	52
822	New York, One hundred and thirty-first street.	Manhattan College ..	Rev. Bro. Eliphus.	4	50	.....	.....	.....	.....	.....	50
823	New York, West Thirty-second street.	Manhattan Business College.	Rev. Bro. Castoris.	5	115	.....	12	.....	.....	.....	127
824	New York.....	Manhattan Working Girls' Club.	Frances E. Parrish.	...	.....	.....	32	.....	.....	.....	32
825	do	Mrs. B. A. Rushton's School of Typewriting and Stenography.	Miss Lydia Seymour.	1	3	45	.....	.....	.....	.....	48
826	do	New York School of Benn Pitman Phonography.	Misses L. and C. Alexander.	2	30	30	16	4	5	.....	85

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1884	*300	Munson's phonography.	Remington (25) ..	7½ months.	32	Free	808
1880		do	Remington (3), Caligraph (1).	4 to 6 mos.	52	60 cents per lesson.	808½
Sept., 1887	120	Graham's phonography.	Hammond (28)...	3 years ...	40	\$100	809
1878	*800	Fish's phonography.	Remington chiefly; also Hammond and Caligraph.	6 months ..		do	809½
Oct., 1887	*220	Munson's phonography.	.....	240 nights.	24	Free	810
Dec., 1888	*40	do	None	2 years ...	20	do	811
Oct. 8, 1889	92	do .....	.....	2 terms ...	44	do	812
About 1875...	*1,500	do .....	.....	2 years ...	26	do	813
Oct. 18, 1888	100	Burnz's phonography.	.....	5 months ..		do	814
Oct. 4, 1886	204	Isaac Pitman's phonography.	Remington (12), Caligraph (1).	8 months ..	30	do	815
1884	*1,600	Benn Pitman's phonography.	Remington (38), Caligraph (22), Hammond (12).	6 to 12 mos.	52	\$80 for complete course.	816
.....		Gabelsberger's stenography (German and English).	Hammond	6 months ..		.....	817
Oct. 1, 1888	*250	Munson's phonography.	.....	2 years ...	24	Free	818
.....		Isaac Pitman's phonography.	Remington .....	.....		From \$1 to \$2 per lesson.	819
Oct. 1, 1888	400	Munson's phonography.	do	6 to 9 mos ..	40	\$75 for complete course.	820
Sept., 1881	*250	Benn Pitman's followed by Graham's phonography.	Hammond (12), Caligraph (1).	2 years ...	40	\$20 for 5 months ..	821
.....		Benn Pitman's phonography.	Hammond, Remington, Caligraph.	6 months ..	40	\$100 per year	822
1883		do	Remington, Caligraph, and Hammond (7).	6 mos. to 2 years.	40	\$50 per year	823
1889		Burnz's phonography.	Caligraph	6 months ..		Free	824
Feb., 1887	60	do	Remington, Hammond, and Smith Premier (12).	6 to 8 mos ..		\$25 for 3 months in classes of 5; \$1 for each private lesson.	825
May, 1887	210	Benn Pitman's phonography.	Caligraph (5), Remington, (2).	3 to 6 mos.	52	\$12 per month	826

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW YORK—con.										
827	New York	New York School of Phonography.	Mrs. Eliza B. Burnz. ^a	2	1	9	4	6			20
828	do	Packard's Business College and School of Shorthand.	Charles M. Miller.	4	40	160	.....	.....	.....	.....	200
829	New York (223 East Fourteenth street).	Private instruction ..	Alexander Cooper.	2	.....	.....	*16	*17	.....	.....	33
830	New York (120 East Ninety-third street).	do	S. Y. Couldock	1	.....	.....	23	.....	.....	.....	33
831	New York (613 Wilt street).	do	Edith E. Fisher...	1	.....	.....	1	.....	.....	.....	1
832	New York	do	A. Leitch	1	.....	.....	4	1	.....	.....	5
833	do	do	D. P. Lindsley	1	7	2	2	4	10	8	33
834	New York (120 East Eighty-sixth street).	do	Jacob Marcus	1	.....	.....	3	1	.....	.....	4
835	New York	do	William L. Mason.	^c 1	1	5	.....	.....	.....	.....	6
836	New York (353 West Twenty-eighth street.)	do	Mrs. L. J. Stancliffe.	...	3	17	9	6	.....	.....	35
837	New York (157 East Forty-ninth street).	do	Dr. Rudolf Tombo.	1	3	.....	.....	.....	2	.....	5
838	New York	do	Chas. A. Wilhoft .	1	.....	.....	.....	.....	1	.....	1
839	do	School of Phonography and Typewriting, Paine's Business College.	James A. Collins .	2	6	26	34	10	.....	.....	76
840	New York (329 Fifth avenue).	School of Shorthand and Typewriting.	Frances E. Parrish	2	.....	.....	.....	.....	.....	.....	.....
841	New York (Sixty-third street).	Senior Evening School, No. 74.	Walter Fox.....	1	.....	.....	65	.....	.....	.....	65
842	New York (239 East Houston street).	Senior Female Evening School.	Miss Lydia Seymour.	2	.....	.....	3	150	.....	.....	153
843	New York	Union School of Stenography, Mary F. Seymour's typewriting office.	Miss Mary F. Seymour.	3	.....	65	.....	.....	.....	.....	65
844	do	Walworth's Stenographic College, Walworth's Business College.	C. A. Walworth...	3	25	50	20	10	1	3	109
845	do	Walworth's Stenographic Institute. ^e	E. R. Denmeade...	2	.....	.....	.....	.....	.....	.....	.....
846	New York (Twenty-third street).	Young Men's Christian Association.	Wm. H. Morse	1	.....	.....	150	.....	2	1	153
847	New York	Young Women's Christian Association.	Mrs. Eliza B. Burnz.	2	.....	83	.....	.....	.....	.....	83
848	Niagara Falls ..	Private instruction ..	Jane E. Murray ..	1	.....	.....	7	.....	.....	.....	7
849	Olean	Westbrook Commercial College.	W. G. Gamble	2	10	6	.....	.....	.....	.....	16

^a The free evening classes in shorthand at the Cooper Union, taught by Mrs. Burnz, were discontinued in 1889. From 1876 to December, 1888, instruction was given to 1,404 persons. These classes were begun in the fall of 1872, and male students were admitted in 1874.

^b Since January, 1885.

^c Sometimes 2.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1870	<i>b</i> 245	Burnz's phonography.	Remington	6 months..	.....	\$100 per course ...	827
1887 .....	.....	Munson's phonography.	Remington (40) ..	About 6 months.	43	\$45 for ten weeks ..	828
.....	*33	Isaac Pitman's phonography.	None	6 months..	52	\$2 per month	829
Jan., 1889	23	Bishop's phonography.	Remington	9 mos. to 1 year.	52	\$25.....	830
1885	3	Burnz's phonography.	do	6 months..	.....	50 cents per lesson.	831
Oct., 1889	5	Isaac Pitman's phonography.	.....	4 months..	.....	\$3 for 10 lessons ..	832
Jan. 1, 1890	.....	Lindsley's tachygraphy.	Hammond, Caligraph.	do	52	\$40 for 4 months ..	833
.....	.....	Gabelsberger's stenography.	Hammond .....	.....	.....	.....	834
1883	37	Isaac Pitman's phonography.	Remington (3) ...	4 mos. to 1 year.	.....	\$60 entire course, shorthand and typewriting.	835
Sept. 1, 1888	*75	Burnz's phonography.	Remington (1) ...	5 to 6 mos.	.....	\$1 per week.....	836
.....	.....	Gabelsberger-Richter stenography.	Remington	6 months..	.....	\$1 per lesson.....	837
June, 1888	4	Benn Pitman's phonography.	do	do .....	.....	50 cents per lesson.	838
1885	172	Munson's phonography.	Remington and Caligraph.	80 to 120 lessons.	52	\$20 for 40 lessons ..	839
1883 .....	.....	Burnz's phonography.	Caligraph (6)	6 months..	40	\$75 for 6 months...	840
Dec. 4, 1888	113	do .....	.....	.....	(<i>d</i>)	.....	841
Oct., 1888	*200	do .....	.....	6 to 8 mos.	18	Free.....	842
1880	*1,000	Benn Pitman's and Munson's phonography.	Remington, Caligraph, Yost, and Crandall.	6 to 10 mos.	48	\$70 six mos. course shorthand, \$95 complete course shorthand and typewriting.	843
Sept., 1871	1,850	Munson's phonography.	Remington (3), Caligraph (4), Hammond (2), Yost (1).	6 months..	52	\$75.....	844
About 1870..	.....	do	Remington and Caligraph.	About 6 months.	.....	\$75 for six months.	845
1874	*1,800	do	Remington (10) ..	15 months.	27	Membership in association \$5 per year.	846
Jan., 1880	*425	Burnz's phonography.	Remington (17) ..	40 weeks..	40	.....	847
July, 1889	7	Graham's phonography.	Caligraph	36 lessons.	.....	\$5 for 12 lessons ..	848
1884	72	Graham's phonography and the stenograph.	Remington and Caligraph.	.....	52	\$50 for 6 months ..	849

d 90 nights.

e This institution has been succeeded by the Munson Stenographic Institute, John W. Crawford principal teacher. Instruction for the year 1890-'91 was given to 86 persons, including 9 by mail; system taught, Munson's phonography; writing machines, 11; tuition, \$12 per month.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW YORK—con.										
850	Oswego.....	Chaffee's Phonographic Institute.	W. G. Chaffee.....	3	*40	*40	.....	.....	*125	*125	*330
851	do	Lavere's Shorthand College.	H. S. Lavere .....	.....	.....	.....	.....	.....	.....	.....	.....
852	Peekskill.....	Peekskill Military Academy.	Chas. T. Cragin ...	1	9	.....	.....	.....	.....	.....	9
853	Pike.....	Pike Seminary.....	Marietta Merville.	1	3	3	.....	.....	.....	.....	6
854	Port Henry.....	Union Free School and Academy.	Eliza C. Drury....	1	9	7	.....	.....	.....	.....	16
855	Poughkeepsie ..	School of Stenography and Typewriting. Eastman Business College.	Miss Julia Blanchard.	3	*125	*50	.....	.....	.....	.....	175
856	Randolph.....	Chamberlain Institute.	J. T. Edwards.....	.....	3	.....	.....	.....	.....	.....	3
857	Rochester.....	Eclectic Shorthand College, Taylor's Business College.	D. J. Finlay.....	1	.....	.....	.....	.....	.....	.....	13
858	do	Osgoodby School of Stenography.	W. W. Osgoodby..	3	.....	.....	.....	.....	.....	.....	.....
859	do	Private instruction..	— Bradstreet ...	1	.....	.....	3	.....	.....	.....	3
860	do	Rochester Business University.	Mrs. L. A. Kane ..	2	18	62	5	9	.....	.....	94
861	do	Rochester Stenographic School.	Mrs. M. C. Churchill.	.....	1	15	2	1	.....	.....	19
862	do	Shorthand and Typewriting Institute.	Gertrude C. Blackall.	1	2	16	1	2	.....	.....	21
863	do	Shorthand Technic Institute.	M. Jeanette Ballantyne.	2	.....	45	.....	3	.....	.....	48
864	do	Underhill's College of Phonography, Underhill's Business College.	B. S. Underhill....	2	47	107	15	25	30	15	239
865	Rome.....	St. Peters' Academy.	.....	1	.....	12	.....	.....	.....	.....	12
866	do	Walworth's Shorthand School.	E. H. Walworth...	1	.....	.....	8	8	.....	.....	16
867	Saratoga Springs	Young Men's Christian Association.	Nelson R. Briggs ..	1	.....	.....	21	.....	.....	.....	21
868	Seneca Falls....	Private instruction..	Fred. W. DeMott ..	1	.....	.....	6	.....	.....	.....	6
869	do.....	School of stenography.	Anna M. Davis and Harriet E. Proudfoot.	2	.....	9	.....	.....	.....	.....	9
870	Shelby Center ..	Young People's Society of Christian Endeavor, First Baptist Church.	Rev. Napoleon Smith.	1	.....	.....	7	9	.....	.....	16
871	Suspension Bridge.	Private instruction ..	Miss Minnie E. Oatman.	1	.....	.....	.....	.....	.....	.....	6
872	Syracuse.....	do	Miss M. G. Ham ..	2	*20	*30	*5	*15	1	*4	75
873	Tottenville.....	do	Rev. S. V. Robinson.	1	5	1	.....	.....	.....	.....	6
874	Troy.....	Christian Brother's Academy (commercial department).	Rev. Bro. Arnold..	4	100	.....	.....	.....	.....	.....	100
875	do.....	St. Mary's Academy.	Rev. Bro. Edward.	3	86	.....	.....	.....	.....	.....	86
876	do.....	Troy School of Shorthand, Troy Business College.	Miss Cornelia L. Payne.	1	24	37	10	10	.....	1	82

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
About 1870..	Over 2,000	Graham's phonography.	Caligraph (45), Remington (14).	6 to 12 mos.	52	\$10 per month	850
.....	.....	do	Remington	3 to 6 mos.	52	do	851
Sept., 1889	.....	Munson's phonography.	.....	.....	36	No extra charge for shorthand.	852
1888.....	40	Graham's phonography.	Remington .....	.....	40	\$15.....	853
Jan. 6, 1890	16	Benn Pitman's phonography.	Caligraph, Remington.	6 mos.....	40	Free.....	854
Sept., 1885	*500	Graham's phonography; also Benn or Isaac Pitman's, or any standard system.	Remington, Hammond, Caligraph, Crandall, and Yost.	4 mos. to 1 year.	52	\$12 a month, \$50 for 6 months.	855
1880.....	15	Benn Pitman's phonography.	Caligraph (1) .....	.....	40	\$10 per term	856
June 1, 1890	13	Cross's shorthand.	Yost (1), Caligraph (1).	10 to 18 weeks.	52	\$30 for 3 months ..	857
July, 1884	2,843	Osgoodby's phonography.	.....	.....	.....	\$12, including books.	858
1884.....	8 or 10	do	Remington	6 mos. for principles.	.....	Nominal.....	859
Sept., 1887	160	do	Remington (9), Yost (6), Caligraph (1).	20 weeks..	40	\$35 for 10 weeks, \$60 for 20 weeks.	860
Oct. 12, 1885	200	do	Caligraph and Remington.	4 to 6 mos.	52	\$10 per month	861
Feb. 1, 1890	21	Benn Pitman's phonography.	Remington (4) .....	.....	49	\$10 a month, \$25 for 3 months.	862
Oct., 1886	70	Osgoodby's phonography.	Remington (2), Caligraph (1).	3 to 9 mos.	52	\$10 for first 4 months, \$5 per month thereafter.	863
Jan. 10, 1887	263	Haven's phonography.	Remington and Caligraph (15).	3 mos.....	52	\$40.....	864
1889.....	12	Pernin's shorthand	.....	.....	44	.....	865
Aug. 1, 1889	19	Munson's phonography.	Remington (1) ..	120 lessons	28	\$60 for course.....	866
Jan. 15, 1890	21	Isaac Pitman's phonography.	Remington	36 lessons.	18	Free.....	867
Apr. 16, 1890	6	Benn Pitman's phonography.	Caligraph	40 weeks..	40	\$10 for 20 lessons..	868
May 19, 1890	9	Graham's phonography.	Caligraph (2)	6 to 9 mos.	.....	\$10 per month	869
1889.....	16	McKee's shorthand.	.....	.....	52	Free.....	870
June 1, 1890	6	Benn Pitman's phonography.	Smith .....	.....	.....	50 cents per lesson	871
1885.....	200 to 300	Graham's and Benn Pitman's phonography.	Smith (2)	About 6 months.	48	\$45 in advance....	872
.....	.....	Isaac Pitman's phonography.	.....	.....	.....	.....	873
1860.....	.....	Benn Pitman's phonography.	Hammond	3 years.....	40	\$40.....	874
1878.....	500	Benn Pitman's and Graham's phonography.	Remington, Hammond, and Caligraph (5).	2 years.....	40	\$10 per quarter....	875
July, 1884	304	Munson's phonography.	Remington (8), Caligraph (1), Yost (1).	6 months ..	50	\$30 for 13 weeks ..	876

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
NEW YORK—con.											
877	Utica	School of Stenography and Typewriting.	Mrs. N. M. Schuyler.	2	4	38	.....	2	.....	3	49
878	do.....	do.....	C. E. Simmons....	.....	.....	.....	2	1	5	1	9
879	do.....	Utica Business College.	Miss Etta M. Davis.	1	10	21	4	2	.....	.....	37
880	do.....	Young Men's Christian Association.	Miss E. J. Cooke..	1	.....	.....	20	.....	.....	.....	20
881	Watertown	Private instruction..	Geo. Adams.....	1	1	3	.....	.....	.....	.....	4
882	Watertown <i>a</i>	do.....	J. H. Calkins.....	1	.....	.....	7	4	.....	.....	11
883	Watertown	do.....	Willis H. Porter ..	1	.....	.....	10	.....	.....	.....	10
884	Westchester	New York Catholic Protectory (male department).	Brother James....	1	40	.....	.....	.....	.....	.....	40
885	do.....	Sacred Heart Academy.	Rev. Bro. Lando-wald, F. S. C.	1	18	.....	.....	.....	.....	.....	18
NORTH CAROLINA.											
886	Asheville.....	Asheville Female College.	Miss E. M. Henderson.	1	.....	7	.....	.....	.....	.....	7
887	do.....	Oakland Institute ...	Miss Flora F. Lowe.	1	.....	5	.....	.....	.....	.....	5
888	Belmont	St. Mary's College...	Rev. Julius Pohl, O. S. B.	1	26	.....	.....	.....	.....	.....	26
889	Charlotte	Private instruction..	R. B. Babington...	1	4	2	.....	.....	.....	.....	6
890	do.....	do.....	Miss Anna L. Twelvetrees.	1	.....	.....	12	5	.....	.....	17
891	Conover	Concordia College ...	J. G. Schaid.....	1	7	.....	.....	.....	.....	.....	7
892	Durham	Durham graded schools.	Miss Nina Gibbs .	1	10	40	.....	.....	.....	.....	50
893	do.....	Private instruction..	M. W. Reed.....	.....	.....	.....	4	.....	.....	.....	4
894	Hickory	do.....	Miss Julia Wheeler.	1	.....	.....	6	.....	.....	.....	6
895	Oak Ridge.....	Oak Ridge Institute.	Thos. E. Whitaker	1	29	1	.....	.....	.....	.....	30
896	Raleigh.....	Private instruction..	E. A. Johnson	1	6	.....	6	.....	.....	.....	12
897	do.....	Raleigh Business College.	J. E. Matheny	2	19	5	11	...	13	4	52
898	do.....	Smithsonian Shorthand Institute.	M. M. Smith	1	5	1	14	3	1	6	30
899	Salem	Salem Female Academy.	Miss Emma A. Lehman.	2	.....	18	.....	.....	.....	.....	18
900	Salisbury	Private instruction..	Miss A. S. Rutledge.	1	.....	1	3	...	1	.....	5
901	Summerville....	Summerville High School.	C. C. Plummer	2	5	.....	.....	.....	.....	.....	5
902	Wallace	Private instruction..	F. A. Milledge	1	.....	.....	.....	.....	.....	.....	5
903	Wilmington	Cape Fear Academy.	Washington Catlett.	1	5	.....	1	.....	.....	.....	6

a Some of these pupils were in Pulaski, N. Y.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
March, 1889	49	Graham's phonography.	Remington and Caligraph (4).	6 months	52	\$10 per month	877
1886	*20	Lindsley's tachygraphy.	Yost (1)	3 to 6 mos.	52	Lessons by mail \$1 to \$1.50 per mo. Personal instruction in classes, 25c. per lesson.	878
1884		Munson's phonography.	Remington (5)	6 months	43	\$30 for 3 months	879
Feb. 12, 1890	20	Scott-Browne's phonography.			12	Membership in association.	880
1883	8	Benn Pitman's phonography.				\$6 for 12 lessons	881
		Graham's phonography, modified.	Remington	4 to 8 mos.		50 cents to 75 cents per lesson.	882
1875	*40	Munson's phonography.	Remington (2)	6 to 12 mos.		\$1 per lesson	883
May 1, 1888	53	Benn Pitman's followed by Graham's phonography.	Caligraph and Remington (3).	2 years	46	Free. (See remarks.)	884
Sept. 1, 1884	100	Graham's phonography.	Caligraph (8)	3 years	40		885
Sept. 10, 1889	15	Munson's and Benn Pitman's phonography.	Remington (1)	2 years	40	\$60 per annum	886
Sept., 1889	5	Benn Pitman's phonography.					887
1882	130	Barnes's phonography.	Remington (2)	1 school year.	42	\$10	888
Apr., 1890	6	Pernin's shorthand.		4 months		50 cents per lesson	889
1888	22	Benn Pitman's phonography.		30 lessons for principles.		\$10 for 25 lessons in class.	890
Oct., 1889	7	Pernin's shorthand.	None	3 months	36	Nominal	891
Sept. 3, 1889	*55	Cross's shorthand.	Remington and Hammond.	10 months	39	Free	892
1885	46	Haven's phonography.	Remington			\$35 until competent.	893
Sept., 1889	6						894
Aug., 1889	30	Haven's phonography.	Remington (2)	3½ to 10 months.	40	\$35, including typewriting.	895
1889	6	Munson's phonography.	Remington (1)	6 months		75 cents per week.	896
Jan. 1, 1890	35	Barnes's phonography.	Remington (4)	6 to 8 mos.	52	\$45 for shorthand and typewriting and bookkeeping.	897
1889	27	Isaac Pitman's phonography.	Hammond (2), Remington (1).	6 months	25	\$25 per term	898
1885	73	Munson's phonography.	Hammond (2), Crandall (1)	1 to 2 yrs	40	\$20 per year	899
		Longley's phonography.					900
Jan. 6, 1889	5	Benn Pitman's phonography.		5 months	40	\$5 for 5 months	901
	4	Scovil's shorthand		6 months		\$5 for 12 lessons	902
1888	10	Pernin's shorthand.		3 to 6 mos.	40	\$2.50 to \$5 per month.	903

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NORTH CAROLINA—continued.										
904	Wilmington	Private instruction..	E. D. McIlhenny..	1	41	2					43
905	Wilson	do	Miss Mary C. Ruffin.	2	4	1					5
906	Winston	do	Mrs. W. W. Gladstone.	1		2					2
	NORTH DAKOTA.										
907	Dickinson	do	Miss Hattie G. Davidson.	1		2					2
908	do	do	W. A. McCloy . . .	1			4	10			14
909	Grand Forks . . .	do	J. H. Vosburgh . .	1	6	6			3	1	16
910	Lamoure	do	C. H. Kermatt . . .	1			4	3			7
	OHIO.										
911	Ada	Ohio Normal University.	S. P. Axline	3	54	36			8		98
912	Akron	Akron Business College.	O. S. Warner	1		2					2
913	Alliance	Mount Union College.	L. B. Matthias . . .	1	13	10					23
914	do	Private instruction..	Geo. H. Sweet				20	26	1	1	48
915	Ashland	Ashland Business College.		1	2	15					17
916	Athens	Private instruction..	C. E. Browne	1	a 4	a 21					a 25
917	Barnesville	do	G. H. Kemp, M. D.	1							3
918	Bartlett	Ohio Normal College.	A. W. Ellis	2	8	3					14
919	Bellefontaine . . .	Private instruction..	David L. Petty . . .	1	2	17					19
920	do	do	Mrs. Harvey Radcliffe.	1	3	16	1	1	1		22
921	Bellevue	Parochial school	Sisters of St. Francis.	1	4						4
922	Belmont Ridge . .	Private instruction..	M. V. Danford . . .	1			7		1		8
923	Cambridge	do	F. G. Steele	1			8	2	1	1	12
924	Canfield	Northeastern Ohio Business College.	C. B. Magill	1	9	6					15
925	Canton	Canton Business College.	B. F. Faust	2	9	25	5	2			41
926	Centre Belpre . . .	Private instruction..	Jesse J. M. Suit . .	1		1					1
927	Cincinnati	Church's School of Phonography and Typewriting.	Mrs. L. T. Church .	2	17	32					49
928	do	Cincinnati School of Phonography.	Miss A. R. Campbell.	3	30	59	12	8			109
929	do	Longley's School of Phonography.	J. M. Longley	1		20	4	7			31

a Some of these pupils were in Jacksonville and Tampa, Fla.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
May, 1884	*75	Isaac Pitman's phonography.	None	3 or 4 mos.		\$10 per month.....	904
Mar., 1890	5	Munson's phonography.	Remington	4 to 6 mos.	52	\$40 for course.....	905
Feb., 1890	2	Burnz's phonography.	Remington (1)...	5 to 8 mos.		\$5 per month	906
.....	2	Lindsley's tachygraphy.	Remington	3 months..		50 cents per lesson	907
1887.....		Benn Pitman's phonography.	Remington (2) ...	6 mos. min- imum.		\$1 per lesson.....	908
1886.....	18	Graham's phonography.	Remington .....	.....	52	\$1 per lesson, personal; 50 cents by mail.	909
1860.....		Benn Pitman's phonography.	None .....	.....		See remarks	910
Aug. 13, 1878	*600	Graham's, Pitman's, and Munson's phonography, and Cross's and McKee's shorthand.	Caligraph and Remington (6).	6 to 9 mos.	49	\$25 per course	911
1873.....		Munson's phonography.	Smith (1)	6 months..	28	\$20 for 3 months ..	912
About 1865..		Graham's phonography.	Caligraph (1)	do	48	\$28 for course.....	913
Aug. 21, 1888	46	do	Caligraph (2)	2 terms ...	52	\$6 for 24 lessons ..	914
Nov., 1888	25	Pernin's shorthand.	Caligraph (1), Hammond (1).	30 weeks..	48	\$35 for course.....	915
1889.....	*25	Scott-Browne's phonography.	Caligraph	3 to 6 mos.		\$10 per month	916
1889.....	3	Benn Pitman's phonography.	do .....	.....		.....	917
1889.....	11	Lindsley's tachygraphy.	Hammond (1)....	5 months..	40	\$7 per term	918
Sept., 1888	24	Graham's phonography.	Remington, Yost, and Caligraph.	First course 6 months.		\$30.....	919
Feb., 1887	27	Munson's phonography.	do .....	.....		\$5 for 20 lessons ..	920
.....		Benn Pitman's phonography.	.....	.....		.....	921
May, 1889	7	do .....	.....	8 wks. to 3 mos. for corresponding style.		\$5 for 2 months ...	922
Jan., 1888	10	do .....	.....	.....		25 cents per lesson.	923
Sept., 1888	34	Graham's & Munson's phonography and Cross's and McKee's shorthand.	Caligraph (1)	20 weeks..	40	\$25.....	924
1880.....		Graham's phonography.	Caligraph (4)	5 months..	52	\$7 per month; \$30 scholarship.	925
.....		Benn Pitman's phonography.	.....	.....		Free	926
Feb., 1883	326	do	Remington (6), Caligraph (2).	4 months..	52	\$60 for complete course.	927
Sept., 1875		do	Remington (15) ..	6 months..		\$15 one month; \$40 three months; \$75 six months.	928
.....		Longley's phonography.	Remington (1) ...	6 months..		\$45.....	929

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	OHIO—continued.										
930	Cincinnati.....	Nelson School of Phonography, Nelson Business College.	Miss Nannie C. Bagott.	2							
931	do.....	Private instruction..	D. F. Cash	1		2	2	2			6
932	do.....	do.....	Miss Lillie C. Fultz.	1					7	28	35
933	do.....	do.....	Miss Nellie F. Milburn.	1			1	3			4
934	do.....	do.....	Miss Effie V. Ryan	1	1	4	1	6			12
935	do.....	R. M. Bartlett's Commercial College.	E. M. Tremain	2							96
936	do.....	St. Francis Gymnasium.	Rev. Ambrose Sanning, O. S. F.	2	29						29
937	do.....	St. Xavier College ...	D. F. Cash	1	13						13
938	do.....	Traub's Shorthand School.	Louis Traub	2	40	30	19	3			92
939	do.....	Young Men's Christian Association.	Chas. Figner	2			23				23
940	Cleveland.....	College of Shorthand, the Euclid Avenue Business College.	Jennie Caton, Frank Gregg.	4	*100	*200	50	100			*450
941	do.....	Electric School of Shorthand, St. Mary's Seminary.	Wm. B. Fleck.....	1	5				4		9
942	do.....	Jewish Orphan Asylum.	Lily Price	1	29	27					56
943	do.....	School of Eclectic Shorthand, Ohio Business University.	E. L. King	4	*50	*100	*15	*35			*200
944	do.....	Spencerian Shorthand School, Spencerian Business College.	A. Day	4	*65	*160	*40	*35		1	*131
945	do.....	Young Men's Christian Association.	Alfred Day.....	1			16				16
946	Cleves.....	Cleves School of Phonography.	W. H. Myers.....	3	43	55	23	22	20	8	171
947	Columbus	Columbus Commercial College.	W. Henry Hartsough	2	25	49	5	5			84
948	do.....	Columbus High Schools.	F. J. Hoffhines....	2	124	86					210
949	do.....	Hudson's College of Shorthand, Hudson's Business College.	W. J. Hudson.....	4	94	282	62	29	187	206	860
950	do.....	Ohio State Prison....	J. H. Lewis, jr	2			26				26
951	do.....	Private instruction ..	Carlisle A. Sharp.						10	6	16
952	do.....	Sloan-Duployan School.	Carrie M. Honley.	1	9	7	2		7	4	29
953	Crawfis College.	Crawfis College.....	May Banfield.....	1	8	2					
954	Dayton	Miami Commercial College.	Ella M. Steely	3	20	80	8	7			115

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1880.....		Benn Pitman's phonography.	Remington	6 months..		\$55.....	930
		do	Caligraph	8 months..			931
Oct. 12, 1888	35	do	Caligraph and Remington (3).	6 months..		\$5 per month.....	932
		do				75 cents per lesson.	933
	12	do	Remington (2), Caligraph (1).	Variable..		\$1 per lesson.....	934
	1,886	Palmer's phonography.	Caligraph	6 months..	52	\$60.....	935
1868.....	*300	Gabelsberger-Geiger phonography.		3 years....	42	Free.....	936
Sept., 1886		Benn Pitman's phonography.	Caligraph (2)	8 months..	40	\$25 per annum....	937
Nov. 1, 1888	120	Graham's, Benn Pitman's, and Longley's phonography.	Remington (12) ..	6 months..	52	\$15 per month	938
Oct., 1885	72	Benn Pitman's phonography.	Remington	6 months..		\$5.....	939
Jan. 1, 1888	*900	Cross's shorthand.	Remington (15), Caligraph (2), Smith (2), Hammond (2).		52	\$75 for full course; \$50 for 6 months.	940
Sept. 6, 1889	15	Benn Pitman's phonography.		3 to 6 mos.	24	For boarding scholars, none; \$5 for mail course.	941
Sept., 1884	230	Graham's phonography.	Remington (1) ..	2 years ...	40	Free to Jewish orphans.	942
1884	*500	Cross's shorthand.	Caligraph, Remington, and Smith.	5 to 7 mos.	50	\$80 per year.....	943
About 1880..	*1,500	Graham's phonography.	Remington (13; Caligraph (10); Hammond (2).	6 months..	52	\$60 for 6 months..	944
Oct., 1887	*150	do	Remington		20	Membership in association.	945
June, 1889	108	Benn Pitman's phonography and Lindsley's tachygraphy.	Caligraph (6)....	4 or 5 mos.	52	\$25 for course	946
1885	*200	Benn Pitman's phonography.	Remington, Caligraph, and Hammond (12).	6 months..	52	\$10 per month.....	947
Sept., 1885	600	do	Caligraph (2), 2 machines.	3 years ...	40	Free.....	948
1883	*1,800	Cross's shorthand and Graham's, Benn Pitman's, and Scott-Browne's phonography.	Remington (23) ..	4 months .	52	\$40 for 6 months...	949
Mar., 1889	44	Benn Pitman's phonography.		10 months.	40	Free.....	950
1889	16	Scott-Browne's phonography.	Remington (1)...	6 to 12 mos.		\$20 full course	951
Nov. 11, 1889	18	Sloan-Duployan shorthand.	Remington (3) ..	3 months..	40	\$15 per month.....	952
Jan. 1, 1890	10	Eclectic	Remington (1)...	9 months..	48	\$9 per term of 9 weeks.	953
1880		Longley's phonography.	Remington, Caligraph, and New Rapid.	6 months for amanuensis.		\$60 for amanuensis course; \$100 for reporter's course.	954

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	OHIO—continued.										
955	Dayton	St. Mary's Institute .	John A. Walden ..	4	45						45
956	Delaware	National Pen Art Hall and Business College.	H. K. Hawk	2	80	29					109
957	do	Ohio Wesleyan University.	Everett McCaskill	1	20	12					32
958	East Liverpool..	Sant's Commercial School.	John Sant	2	4		9	4			17
959	Fairview	Private instruction..	D. F. G. Hall	1	20	10	22	8	8	1	69
960	Fayette.....	Fayette Normal University.	E. T. Pierce.....	3	3				8	4	15
961	Feesburg	Feesburg High Schools.	George M. Hiatt..	1	18	12					30
962	Findlay.....	Findlay Business College.	Miss Alice V. Smaltz.	2	8	11					19
963	do	Findlay College School of Shorthand, Findlay College.	H. J. Minnich.....	1					8	7	15
964	Fostoria	North American Normal School, Music, and Business College.	J. R. Wright.....	2	15	20	2		1	2	50
965	Geneva	Geneva Normal School, commercial department.	W. Douglas.....	1	7	18			2		27
966	Georgetown	Private instruction..	Anna E. Dudley ..	1	2	7					9
967	do	do	R. A. O'Hara	1							
968	Germano	Private instruction..	O. B. Miller.....	1	15	11			8	2	36
969	Germantown ...	Actual Business School of Twin Valley College.	Miss Eva Kendall	1	3	5	2				10
970	Hamilton	Ohio Commercial College.	Miss Anna K. Janser.	1	3	14	5	1			23
971	Harrison	Common school.....	J. W. Golladay....	1	5	3					8
972	Hiram	Hiram College. Private instruction.	Geo. H. Rymers...	1	14	2			3		19
973	Hopedale	Buchanan Business Institute.	William Buchanan	1	11	9					20
974	do	Normal College.....	R. R. Birney	1	26	11					37
975	Ironton.....	Private instruction..	Miss E. R. Withrow.	1	1	4		1			6
976	Lancaster.....	Crippen's School of Shorthand and Typewriting.	L. C. Crippen	2	93	41			12	9	155
977	do	Private instruction..	T. Hartley Smith.	1	2		2				4
978	Lebanon.....	do	Miss Mary L. Frost.	1	3	17		1			21
979	do	School of Phonography and Typewriting, National Normal University.	Julia Akers	1	20	25					45
980	McConnelsville	Private instruction..	Mrs. Georgia Glass.	1	1	5	1	1			8
981	Madisonville ...	do	Clara B. Dinkelman.	1	3	7	3	1	1	1	16

for the scholastic year ended June 30, 1890—Continued.

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Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1883.....	*100	Longley's phonography.	Caligraph (1), Remington (1).	.....	40	Part of regular course.	955
1882.....	880	Cross's shorthand.	Remington (6) ..	3 months ..	.....	\$30.....	956
Sept., 1886	116	Cross's shorthand and Benn Pitman's and Moran's phonography.	Caligraph (1)	12 months..	36	\$5 per term	957
Sept., 1888	13	Benn Pitman's phonography.	do	6 months ..	26	\$25.....	958
Jan. 1, 1889	49	do	do	4 months ..	40	\$10 per month.....	959
1888.....	19	Anderson's shorthand type-writer.	Caligraph (1), Remington (1), Hammond (1),	About 12 weeks.	40	\$5 per month	960
Oct. 1, 1889	30	Benn Pitman's phonography.	Caligraph	About 9 months.	.....	Free	961
Sept. 1, 1889	19	do	Remington (1), Caligraph (1), Rapid (1).	6 months ..	42	\$45.....	962
1890.....	.....	.....do	Caligraph (3), Remington (1).	.....	.....	\$25 for 3 months ..	963
Oct. 15, 1888	.....	Cross's shorthand and Munson's and Benn Pitman's phonography.	Remington (1), Caligraph (1).	6 months..	49	\$30 for course.....	964
1885.....	.....	McKee's shorthand.	Remington (1) ..	4 months..	39½	\$30.....	965
1887.....	25	Pitman's phonography.	Remington	3 to 6 mos.	53	\$10 per month	966
June, 1887	18	Benn Pitman's phonography.	Caligraph.....	.....	.....	\$10 for 20 lessons..	967
1880.....	60	do .....	.....	18 months ..	.....	\$5 per term of 3 months.	968
1887.....	13	Pernin's shorthand.	Hammond (4), Hall, (1).	.....	40	\$5 per month.....	969
1887.....	.....	Benn Pitman's phonography.	Remington	20 weeks..	.....	\$50	970
Feb., 1889	8	do .....	.....	.....	.....	Free	971
Sept. 1, 1885	83	Scott-Browne's phonography.	Caligraph (1), Remington, (1).	6 months ..	.....	50 cents per lesson	972
1885.....	*75	Benn Pitman's phonography.	do	do	48	\$10 per quarter ...	973
1874.....	.....	.....do	Remington (1) ...	10 months ..	40	.....	974
Feb., 1889	10	do .....	.....	.....	.....	.....	975
.....	.....	Lindsley's tachygraphy.	Hammond	3 to 4 mos.	.....	\$10 per month	976
Mar. 1, 1890	.....	Cross' shorthand.	Caligraph (1)	3 months ..	.....	.....	977
Oct., 1886	45	Longley's phonography.	Caligraph	6 to 8 mos.	.....	\$5 for 16 lessons...	978
1870.....	400	do	Remington and Caligraph (3).	30 weeks..	50	\$10 for 10 weeks ..	979
June 4, 1890	6	Benn Pitman's phonography.	Remington (1) ...	.....	11	50 cents per lesson	980
Oct. 19, 1887	21	do	do .....	.....	44	\$8 per month, shorthand and typewriting.	981

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Male.	Female.	Male.	Female.	Male.	Female.	
	OHIO—continued.										
982	Mansfield.....	Ohio Business College.	Mrs. H. E. Hall ...	1	14	25					39
983	Massillon.....	Massillon Business College and Normal School.	J. M. Leese	2	9	7	5	7			
984	do	Private instruction ..	Richard Johnson .	1			1	6			7
985	Mount Vernon..	do	George Flint.....	2	*25	*25					50
986	Newark	Beeney's Commercial College.	Mrs. G. F. Richards.	2		6					6
987	do	Private instruction ..	S. E. Swartz	1	4	3	3	3			13
988	New Athens....	Franklin College	J. M. Thompson ..	1	13	5					18
989	New Hagerstown.	New Hagerstown Academy.	J. Howard Brown.	1	(25)						25
990	New Lexington.	Private instruction ..	H. M. Tussing	1	5	1					6
991	New Richmond	Mann's School of Shorthand and Typewriting, The Eclectic Normal and Business University.	E. G. Mann	1	40	20	15				75
992	do	New Richmond Private High School.	Mrs. W. A. Davis .	2	3	7					10
993	Oberlin	Private instruction ..	Jacob Burgner.....	1	3	2					5
994	do	School of shorthand, Oberlin Business College.	Miss Nellie Wood.	1	12	8			1	1	22
995	Oxford.....	Private instruction, Oxford College.	Lizzie S. Smith....	1		7					7
996	Piqua (and Dayton).	Shorthand Institute, Piqua and Dayton Commercial Colleges.	C. E. Beck	2		4		3	1	1	9
997	Rainbow.....	Private instruction ..	Mrs. Lillian Tidd Wood.	1	1	4	1	2		2	10
998	St. Clairsville ..	do	J. H. Henderson ..	1	13	17					30
999	Salem.....	do	Marie Pauline Cattelle.	1	3	7					10
1000	do	do	Mrs. Nettie Gasley.	1			1	2			3
1001	do	Young Men's Christian Association.	W. W. Hole	1			15				15
1002	Sandusky.....	do	Mrs. M. N. Evans .	1			6	6			12
1003	Scio.....	Scio College	W. J. Holt	1	16	6					22
1004	Sidney.....	School of Phonography and Typewriting.	Mrs. C. S. Emmons.	1	2	4	3	5			14
1005	Springfield	Private instruction ..	I. A. Barnes.....	2			10				10
1006	do	Williss College of Shorthand.	F. W. Williss	3	*125	*125					*250
1007	Tiffin	Heidelberg Business College and Institute of Shorthand.	A. G. Barone	1	11	9		1	1		22
1008	do	Ursuline College.....	Ursuline Sisters ..	2		4					4
1009	Toledo.....	"Best" Shorthand School, Tri-State Business College.	Mr. and Mrs. J. W. Melchior.	3	75	125	15	10			225

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1884	.....	Pernin's shorthand.	Caligraph (2)	4 to 5 mos.	50	\$8 per month.....	982
May 1, 1889	28	Cross's shorthand.	Remington (3) ...	3 to 5 mos.	50	\$30.....	983
Mar. 5, 1886	14	Graham's phonography.	Caligraph	100 evenings.	36	75 cents per lesson.	984
Dec. 25, 1887	80	Benn Pitman's phonography.	do .....	.....	.....	\$50 for course.....	985
1886.....	15	Haven's phonography.	Caligraph (1)	3 to 6 mos.	50	\$30 for course.....	986
.....	.....	Benn Pitman's phonography.	Hammond	1 year.....	.....	\$50.....	987
Sept. 1, 1889	18	Pernin's shorthand.	Caligraph (1)	do	40	50 cents per week.	988
1869.....	120	Graham's phonography.	.....	.....	.....	30 cents per week.	989
July, 1888	18	Benn Pitman's phonography.	Remington .....	.....	.....	.....	990
July, 1889	60	do	Caligraph, Remington, and Hammond.	4 to 5 mos. ....	.....	\$50 for complete course.	991
Oct., 1889	10	do	None	15 months.	32	\$3 per month	992
1885.....	17	do	Caligraph.....	6 months..	24	\$15 for 60 lessons..	993
1880.....	.....	Cross's shorthand.	Remington, Smith, Caligraph, and Hammond.	4 to 8 mos.	50	\$50.....	994
1888.....	25	Benn Pitman's phonography.	Caligraph (2), Yost (1).	4 months..	36	\$35 per term of 4 months.	995
Apr. 14, 1890	9	Pernin's shorthand.	Caligraph (1), Remington (1).	3 to 4 mos.	52	\$35 in Piqua; \$40 in Dayton; \$10 by mail.	996
Dec., 1889	10	Scott-Browne's phonography.	Yost (1).....	4 to 6 mos.	.....	50 cents per lesson.	997
Feb. 1, 1890	30	Benn Pitman's phonography.	Caligraph.....	.....	.....	\$2.50 per week.....	998
June, 1886	10	Porter's shorthand.	Remington	6 months..	.....	\$5 per month.....	999
April, 1885	.....	do	Caligraph (1), Remington (1).	6 months to 1 yr.	.....	\$1 per lesson.....	1000
Nov. 1, 1889	*25	Munson's phonography.	.....	.....	24	Membership in Association (\$5).	1001
Feb., 1889	12	Graham's phonography.	None .....	.....	24	Membership in Association (\$1).	1002
.....	.....	do	Caligraph (1)	12 months.	38	\$25 full course, shorthand and typewriting.	1003
Nov. 13, 1889	8	Longley's phonography.	Remington (1), Caligraph (1) ..	4 to 6 mos.	52	\$40.....	1004
Dec., 1889	10	Benn Pitman's and Graham's phonography.	Remington .....	.....	30	25 cents per lesson.	1005
1880.....	.....	Munson's phonography.	Remington (20) ..	12 months.	52	\$15 for one month; \$50 for six mos.	1006
Jan. 12, 1889	40	Pernin's shorthand.	Caligraph (1), Hammond (1).	8 weeks to 4 mos.	48	\$30.....	1007
1885.....	30	Benn Pitman's phonography.	Caligraph (1).....	4 to 6 mos.	44	\$10 for 24 lessons..	1008
Sept., 1884	900	Benn Pitman's and Graham's phonography.	Caligraph (5), Remington (1).	6 months..	50	\$7 per month.....	1009

Statistics of instruction in shorthand in the United States

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					Male.	Female.	Male.	Female.	Male.	Female.	
	OHIO—continued.										
1010	Toledo.....	Steadman Shorthand School, Steadman Business College.	John J. Whetsel.	2	10	9	2	2			23
1011	do	Toledo Business College.	J. R. Skelley	2	35	60	15	10	.....	.....	120
1012	Troy	Private instruction..	C. F. Grosvenor..	1	2	2	.....	.....	.....	.....	4
1013	Tupper's Plains	Tupper's Plains Academy.	M. Bowers.....	.....	.....	.....	.....	.....	.....	.....	.....
1014	Urbana.....	St. Mary's Parochial School.	Sisters of Mercy..	2	2	2	.....	.....	.....	.....	4
1015	Wauseon	Northwestern Normal and Collegiate Institute.	C. L. Goll.....	1	*32	*18	.....	.....	.....	.....	* 50
1016	Westerville	Otterbein University	Tressa M. Maxwell.	1	10	6	.....	.....	.....	.....	16
1017	West Farmington.	Campbell's school of shorthand and type-writing, Farmington College.	Homer W. Campbell.	1	4	28	.....	.....	.....	2	34
1018	Wooster.....	Bixler's College of Shortland, Bixler's Business College.	Mrs. A. J. Dever.	1	9	15	.....	.....	.....	.....	25
1019	do	University of Wooster.	H. F. Allison.....	1	4	.....	.....	.....	.....	.....	4
1020	Xenia	O. S. and S. O. Home Shorthand School.	Miss M. G. Igler.	1	12	23	.....	.....	.....	.....	35
1021	Yellow Springs.	Antioch College	F. G. Strickland..	1	3	1	.....	.....	.....	.....	4
1022	Youngstown....	Actual Business College.	W. Douglas.....	3	3	6	2	1	.....	.....	12
1023	do	Johnston School of Shorthand; also private instruction.	B. O. Eddy, M. L. Johnston, Lulu Mackey.	4	3	37	2	5	1	1	49
1024	Zanesville	Private instruction..	J. D. Fisher.....	1	.....	.....	4	4	.....	.....	8
1025	Youngstown....	Steiner's Shorthand College; Steiner's Business College.	Miss Lizzie R. Cowin.	1	16	21	2	6	.....	.....	45
1026	Zanesville	Zanesville Business College.	Emilie Saumenig .	2	11	25	.....	.....	.....	1	37
	OKLAHOMA TERRITORY.										
1027	Frisco.....	Private instruction..	M. A. Smedley....	1	.....	2	.....	.....	.....	.....	2
	OREGON.										
1028	Hillsboro	Private instruction..	W. A. Newell.....	1	.....	.....	4	2	.....	.....	6
1029	Philomath	Philomath College...	Henry Sheak	1	1	1	.....	.....	.....	.....	2
1030	Portland.....	Bishop Scott Academy	Hattie Z. Sampson	1	8	.....	.....	.....	.....	.....	8
1031	do	Holmes Business College.	G. Holmes	3	120	180	.....	.....	10	15	325
1032	do	Portland Business College.	Miss Etta E. Moore	3	15	50	.....	.....	.....	.....	65
1033	do	Studies of shorthand.	Mrs. L. Bronson Salmon.	1	9	28	5	25	10	12	89

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

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Jan. 1, 1890	23	Benn Pitman's and Graham's phonography.	Remington (1), Yost (3).	5 to 7 mos.	52	\$30	1010
Sept. 1, 1884	550	Benn Pitman's phonography.	Remington (6) ...	6 to 9 mos.	48	\$5 per month; \$30 scholarship.	1011
1880.....	.....	Munson's phonography.	Caligraph.....	.....	.....	.....	1012
1876.....	35	Pitman's phonography and Eames's shorthand.	.....	10 months.	48	\$6	1013
Sept., 1889	4	Benn Pitman's phonography.	Caligraph.....	do	36	\$20 and \$25	1014
Sept. 1, 1888	*75	Cross's shorthand and Benn Pitman's phonography.	do	30 weeks...	40	\$10.....	1015
1889.....	16	Cross's shorthand.	Remington (1)...	3 to 6 mos.	38	\$5 per month	1016
Aug. 20, 1889	32	Cross's and McKee's shorthand and Benn Pitman's and Munson's phonography.	Caligraph (1)	5 to 6 mos.	40	\$20 for course.....	1017
Sept., 1889	24	Graham's phonography.	Remington (1), Caligraph (1), Hammond (1).	About 9 months.	52	\$52 for 6 mos	1018
1886.....	35	Benn Pitman's phonography.	.....	24 weeks..	35	\$10 for 12 weeks...	1019
1885.....	(a)	do	Remington and Caligraph.	2 to 3 years	40	.....	1020
.....	.....	Cross's shorthand.	Hammond .....	.....	36	\$35 per year	1021
Mar. 17, 1890	12	McKee's shorthand.	Remington (2)...	3 months	50	\$40.....	1022
Dec. 1, 1889	40	Graham's phonography.	Remington (5)...	12 months.	52	\$6 per month.....	1023
1887.....	30	Benn Pitman's phonography.	.....	13 lessons,	.....	\$5	1024
1887.....	200	Munson's phonography.	Caligraph (1), Yost (1).	6 months	52	\$5 per week.....	1025
Sept. 11, 1889	36	Munson's phonography and the stenograph.	Hammond (1), Caligraph (1), Remington (1).	6 months	52	\$48 for course.....	1026
.....	2	Cross's shorthand.	Remington (1)...	3 to 5 mos.	52	\$1.25 per week	1027
Dec. 15, 1889	6	Benn Pitman's phonography.	Remington (1)...	6 to 9 mos.	52	\$6 per month	1028
1873.....	42	Isaac Pitman's, followed by Graham's phonography.	Caligraph (1) ....	.....	40	\$5 per quarter	1029
Jan. 1, 1887	19	Munson's phonography.	Remington (1)...	.....	39	.....	1030
Oct. 1, 1884	Over 1,000	Graham's and Pitman's phonography.	Remington and Yost.	3 to 6 mos.	52	\$10 per month	1031
Sept., 1885	*300	Benn Pitman's phonography.	Remington (10), Caligraph (3) Yost (1).....	6 to 9 mos.	52	\$50 for 6 months ..	1032
.....		Bronson's shorthand.	Caligraph, (3)....	3 months		\$30.....	1033

a About 25 per year.

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					Male.	Female.	Male.	Female.	Male.	Female.	
	OREGON—cont'd.										
1034	Salem.....	Capital Business College.		1	2	9					11
1035	do	Willamette University, private instruction.	Minnie Cunningham.	1	9	9					18
1036	do	Private instruction..	W. P. Williams ...								
	PENNSYLVANIA.										
1037	Allegheny	Park Institute	W. A. Terry	1	10	10	18	7			45
1038	do	Private instruction..	John E. Hall.....	1			8	6			14
1039	Allentown.....	Allentown Business College.	W. L. Blackman ..	3	21	18	2	5			46
1040	do	Private instruction..	Emma M. K. Steckel.	1	1	7					8
1041	Altoona	Mountain City Business College.	G. G. Zeth.....	2	49	80	36	54	25	7	251
1042	do	Private instruction..	J. B. Anderson....	1			3				3
1043	do	do	Charles A. Buch ..	1	2	8	25	5			40
1044	do	do	S. L. Huyette.....	1	15	3					18
1045	do	do	H. H. Leader	1	2						2
1046	do	do	Geo. McDonald ...	1			4	1			5
1047	do	St. John's Boys' School.	Rev. Bro. Angelus, O. S. F.	1	25						25
1048	Beatty.....	St. Xavier's Academy	Miss Anna M. Aurentz.	1		15					15
1049	Berwick.....	Young Men's Christian Association.	E. B. Kepner.....	1			6				6
1050	Bethlehem.....	Bethlehem Business College Institute of Shorthand.	P. D. Odenwelder ..	3	39	8	15	4	10	3	79
1051	Blairsville.....	Private instruction..	Miss Anna M. Aurentz.	1	1	4					5
1052	Burlingame	Private instruction ..	W. G. Thrall.....		1	1			1	1	4
1053	Canonsburg	Jefferson Academy ..	C. M. Des Islets ..	3	2	10					12
1054	Carlisle.....	Private instruction ..	W. J. Shearer.....	2			15	25	2	1	43
1055	Chester.....	Chester Academy ...	Geo. Gilbert	3	14	8	12	8		1	43
1056	Clarion.....	State Normal School.	Mrs. W. B. M. Bashline.	2	11	8					19
1057	Connellsville ...	Private instruction ..	Rev. A. R. Seaman ...		1						1
1058	Conshohocken..	Phonetic Institute; Private instruction..	William Street ...	1					20	30	50
1059	Cooperstown ...	Cooperstown Grammar School; Cooperstown Shorthand School.	J. W. Beers.....	1	10	14	2	2			28
1060	Corry.....	Corry Business College.	Miss G. E. Muzzy ..	1	3	9	0	4	0	0	16
1061	Dinsmere.....	Private instruction ..	F. M. Barber.....						5		5
1062	Edinboro	Edinboro School of Shorthand.	L. V. Kupper	1	10	20					30
1063	Erie	Erie Shorthand School.	Miss Kittie Shaefer	2	*35	*50	*30	*10	*6	*6	137

for the scholastic year ended June 30, 1890—Continued.

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Sept. 7, 1889		Benn Pitman's phonography.	Remington (2)			\$50 for 6 months ..	1034
Oct. 6, 1889	18	Graham's phonography.	Remington (1)		40		1035
Jan., 1889	5	do	Remington .....	.....	.....	50 cents per lesson	1036
Sept. 2, 1889	.....	....do	Caligraph (2), Remington (1), Hammond (1).	.....	.....	\$25 for 6 months, \$5 per month.	1037
Oct. 1, 1889	14	do	Caligraph (1), Remington (1).	6 months .....	.....	50 cents per lesson	1038
1887.....	.....	Lindsley's tachygraphy and Pernin's shorthand.	Hammond (3)....	3 to 6 mos.	52	\$25 for 3 months..	1039
June, 1889	8	Pernin's shorthand.	Hammond	4 months ..	16	\$15.....	1040
1879.....	1,800	Benn Pitman's phonography.	Caligraph (3)	9 months ..	52	\$12 per month, shorthand and typewriting.	1041
Apr., 1888	6	do .....	.....	4 months ..	40	\$2 for 8 lessons....	1042
Sept., 1887	*80	Isaac Pitman's and Benn Pitman's phonography.	Hammond (1), Remington (1).	6 months .....	.....	\$3 for 12 lessons of one-half hour each.	1043
Jan., 1888	20	Benn Pitman's phonography.	None .....	.....	.....	50 cents per hour ..	1044
.....	.....	Isaac Pitman's phonography.	Remington.....	.....	.....	\$3 per month	1045
June 19, 1889	5	Benn Pitman's phonography.	Remington (1)...	3 months ..	36	20 cents per hour ..	1046
1880.....	*200	do	None	3 years....	40	Included in general tuition fees.	1047
Apr. 17, 1889	21	do	National (1)	6 months .....	.....	\$3 per month.....	1048
1890.....	6	Graham's phonography.	.....	.....	.....	.....	1049
Dec. 31, 1888	81	Kimball's reporting and Lindsley's corresponding tachygraphy.	Remington	5 to 8 mos.	46	.....	1050
June 29, 1888	.....	Benn Pitman's phonography.	Remington (1) ...	7 months ..	.....	\$5 per month	1051
Dec., 1886	10	Osgoodby's phonography.	Caligraph.....	2 years....	13	\$10.....	1052
1875.....	.....	....do	do .....	.....	.....	\$30 for course.....	1053
Mar., 1890	40	Graham's phonography.	Caligraph (1)	5 months ..	.....	\$5.....	1054
1865.....	*250	Benn Pitman's phonography.	Remington (2) ...	6 to 12 mos	39	\$50 for course.....	1055
1888.....	32	Porter's shorthand.	Caligraph (2) .....	.....	42	\$42 per year.....	1056
1880.....	20	Lindsley's tachygraphy.	.....	100 lessons .....	.....	\$100.....	1057
1860.....	5,000	Isaac Pitman's phonography.	.....	3 to 6 mos.	.....	\$5 to \$10	1058
Apr. 7, 1890	28	Lindsley's tachygraphy.	None	4 months ..	39	\$3 per month.....	1059
1889.....	.....	Day's phonography.	Caligraph and Remington.	6 months ..	40	\$20 for 3 months ..	1060
Dec., 1889	5	Benn Pitman's phonography.	Remington (1) ...	8 to 12 mos .....	.....	25 cents per lesson by mail.	1061
Mar. 24, 1889	45	Graham's phonography.	Caligraph.....	4 to 6 mos.	.....	\$10 per term	1062
Jan. 1, 1887	300	do	Remington (7) ...	6 months ..	50	\$50 for 6 months ..	1063

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept. 4, 1889	67	McKee's shorthand.	Smith and Caligraph (5).	3 to 6 mos.	51	\$50 life scholarship	1064
Aug. 28, 1889	8	Graham's phonography.	Hammond	1 year	40	50 cents per week.	1065
Jan. 1, 1890	16	do	Remington (2) ...	6 to 8 mos.		\$6 per month.....	1066
1885.....	43	Munson's sphonography.	.....	40 weeks		\$25.....	1067
1885.....	60	Benn Pitman's phonography.	.....	8 months.....		\$5 for 12 lessons...	1068
Sept., 1889	22	Graham's phonography and Porter's shorthand.	.....	10 months.....	38	\$25.....	1069
Jan., 1890	23	Graham's phonography.	Remington and Caligraph.	1 year	39	\$42 per year.....	1070
Sept. 2, 1889	20	Mulvey's shorthand.	Remington (1), Yost (1).	3 months ..	52	\$25	1071
Aug. 1, 1889	40	Cross's shorthand.	Remington and Caligraph.	4 to 12 mos	50	\$40, shorthand and typewriting.	1072
Feb., 1890	4	Isaac Pitman's in English and Morgan's adaptation of Pitman's in Welsh. ^a	.....	6 months		Free.....	1073
Sept., 1889	29	Graham's phonography.	Remington and Caligraph.	.....	42	Shorthand, \$27 per year; typewriting, \$13.50 per year.	1074
Jan. 15, 1890	20	Lindsley's tachygraphy.	Hall (1)	4 weeks.....		\$3.....	1075
1887.....	75	Graham's phonography.	Remington (1) ...	26 weeks..	39	\$15 for 13 weeks ..	1076
.....	6	do	Remington	20 weeks.....		\$20.....	1077
Sept. 12, 1888	243	Benn Pitman's phonography.	Remington (10),	.....	38	Tuition free to regular students of the Academy.	1078
Sept., 1888	25	Kimball's tachygraphy.	Remington (1), Caligraph (1),	6 to 7 mos.	45	\$40 scholarship....	1079
Oct., 1889	18	Lindsley's tachygraphy.	Remington	26 weeks..	26	Free to members of the Y. M. C. A.	1080
.....	.....	Burnz's phonography.	Remington	1 year.....		\$100.....	1081
July 8, 1889	*75	Benn Pitman's phonography.	Remington, Crandall, and Caligraph (6).	6 months to 1 year.	44	\$40, complete course.	1082
Oct. 15, 1889	38	do	Remington (2) ...	3 to 4 mos.		\$25.....	1083
Jan. 1, 1890	5	Benn Pitman's and Graham's phonography.	Caligraph (1)	1 month.....		\$10 per term	1084
.....	.....	Benn Pitman's phonography.	.....	.....		.....	1085
Sept., 1888	8	Graham's phonography.	Remington (1) ...	1 year.....	36	\$30 a year.....	1086
1887.....	.....	Munson's phonography.	None .....	.....	40	No special charge for shorthand.	1087
1886.....	*20	Benn Pitman's phonography.	Crandall (1).....	1 year.....	40	\$10 per year for shorthand.	1088
Jan. 1, 1888	20	do	Hammond (1)	6 months		\$10.....	1089

^a Benn Pitman's system has been taught since April, 1891.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	PENNSYLVANIA—continued.										
1090	Oxford.....	Oxford School of Phonography and Typewriting.	W. J. Peeples.....	2	45	12	6	...	5	5	.....
1091	Philadelphia....	The Campbell College of Shorthand and Typewriting.	D. J. Campbell....	3	29	56	76	17	(14)		192
1092	do	Columbia Institute ..	James W. Smith ..	2	4	17	33	21	.....		75
1093	Philadelphia (Germantown).	Germantown Business College.	George J. Corbett.	1	....	....	9	14	.....		23
1094	Philadelphia....	Girard College for Orphans.	Miss Jennie Holden.	1	200	....	....	....	....		200
1095	do	Haven College of Shorthand and Typewriting.	Mrs. Kate Price ..	2	43	65	6	8	.....		123
1096	do	Humphrey's Shorthand, Typewriting, and Telegraph Institute.	F. S. Humphrey ..	2	48	42	27	10	63	17	207
1097	do	La Salle College	Rev. Bro. Fabrician.	3	25	....	....	....	....		25
1098	do	Lingle's College	J. M. Lingle	3	*100	*250	*100	*0	*25	*25	*550
1099	do	Morgan's Shorthand School.	C. R. Morgan	3	....	10	....	....	....		10
1100	do	Palmer's Scott-Browne College.	O. R. Palmer	5	56	127	54	29	.....		266
1101	Philadelphia....	Philadelphia School of Phonography.	Franklin N. Close.	3	105	202	96	79	.....		482
1102	do	Pierce College of Shorthand and Typewriting; Pierce College of Business.	Willard E. Barcus.	2	51	86	42	26	1	1	207
1103	do	Prickett College of Commerce.	Francis H. Hemperley.	....	....	....	....	....	....		....
1104	do	Private instruction..	D. P. Lindsley	1	4	6	3	...	27	9	49
1105	Philadelphia (Holmesburg).	do	George N. Moore..	1	1	....	3	3	.....		7
1106	Philadelphia (Manayunk).	do	Jos. J. Welsh	1	....	....	....	....	4	2	6
1107	Philadelphia....	do	S. G. Wright	1	2	12	....	2	.....		16
1108	do	North Broad Street Select School.	M. B. Wicks	1	35	....	....	....	2	....	37
1109	do	St. Peter's Guild of St. Peter's Church.	Henry Russell Wray.	1	....	....	....	....	....		*25
1110	do	Southwark Reading Rooms.	Lewis Neelson....	1	....	....	....	....	....		35
1111	do	Temple College.....	D. J. Campbell....	1	....	....	44	66	.....		110
1112	do	Young Men's Christian Association (Central Branch).	Parke Schock.....	1	....	....	50	....	....		50
1113	do	Young Men's Christian Association (Southeast Branch).	Jerome Bacon.....	1	....	....	12	....	....		12

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
June 1, 1889	73	Haven's phonography; Graham's and Benn Pitman's.	Remington (12) ..	3 to 6 mos.	52	\$30 to \$45	1090
Jan., 1889	*250	Benn Pitman's phonography, modified.	Remington (8) ...	4 months .	52	\$12 per month, day sessions; \$4 per month, evening.	1091
Oct. 14, 1889	75	Isaac Pitman's phonography.	Hammond and Remington.	Depends upon student.	52	\$45 for 4 months ..	1092
1887	*125	...do	Remington (3) ...	4 to 6 mos.	43	\$5 per month	1093
1880		...do	Remington and Caligraph.	3 years.....	10	Free	1094
Sept., 1882		Haven's phonography.	Remington and Caligraph (5).	3 months .	52	\$15 per month	1095
Sept., 1877		Benn Pitman's phonography, modified.	Remington (15), Caligraph (1).	6 months .	52	\$50.....	1096
1870		Benn Pitman's phonography.	Caligraph (4)	1 to 2 years	40	No extra charge for shorthand; \$10 per year for use of typewriters.	1097
1881	*2,000	...do	Remington (7), Caligraph (1), Hammond (1).	3 to 6 mos.	52	\$45, full course....	1098
1884	50	...do	Remington	6 months .		\$30.....	1099
May, 1885		Scott-Browne's and Benn Pitman's phonography.	Remington, Hammond, and Caligraph (27).	3 to 6 mos.	52	\$45 for 4 months; \$65 for 6 months.	1100
1879	*2,000	Benn Pitman's phonography.	Remington, Caligraph, and Hammond (17).	3 to 5 mos.	52	\$40 per quarter ...	1101
Mar. 6, 1889	251	...do	Remington (16) ..		43	\$120 per year.....	1102
1886		...do	Remington and Caligraph.		52	\$12 per month	1103
		Lindsley's tachygraphy.	Remington (1), Caligraph (1).	4 months.	52	\$40 per term of 4 months.	1104
		Benn Pitman's phonography.	Hammond	5 months.		50 cents per lesson.	1105
		Haven's phonography.	Remington				1106
May, 1887	24	Everett's shorthand.	Hammond (1), National (1).	About 3 months.		\$30	1107
1885	150	Cross's shorthand.	None	2 years.....	39	No extra fee for this study.	1108
July, 1889	25	Isaac Pitman's phonography.	...do	12 to 15 lessons.		Free.....	1109
Nov., 1889	35					do	1110
Oct., 1879	110	Benn Pitman's phonography, modified.			32		1111
1886	175	Benn Pitman's phonography.	Remington (5).		24	Membership in association, \$5.	1112
							1113

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	PENNSYLVANIA—continued.										
1114	Philadelphia....	Young Men's Christian Association (West Philadelphia Branch).	Naylor C. Davis ..	1	.....	.....	80	...	6	6	92
1115	Pittsburg.....	Actual Business College.	Miss Eckler	1	.....	.....	.....	.....	.....	.....	.....
1116	do	Central High School.	S. D. Everhart	1	59	35	.....	.....	.....	.....	94
1117	do	Curry School of Shorthand, Curry University.	Miss Mattie Daltzell.	4	55	168	.....	...	3	5	231
1118	do	Duff's College	M. S. Johnston....	3	50	100	10	15	.....	.....	175
1119	do	Holy Ghost College..	W. T. Dempsey ...	1	5	.....	.....	.....	.....	.....	5
1120	do	Young Men's Christian Association.	William A. Terry .	2	.....	.....	44	.....	.....	.....	44
1121	Pottsville.....	City Business College.	G. A. Transue.....	1	30	20	10	.....	.....	.....	60
1122	Reading	Inter-State Commercial College.	E. R. Gerber	1	36	18	16	7	.....	.....	77
1123	do	Private instruction ..	John M. Bertolet..	1	.....	.....	6	6	.....	.....	12
1124	do	do	Francis S. Kinsey.	1	26	.....	5	.....	.....	.....	31
1125	do	do	E. C. Lindemuth ..	1	.....	.....	10	1	.....	1	12
1126	do	Reading Business College.	D. B. Brunner.....	1	12	8	4	1	.....	.....	25
1127	do	Young Men's Christian Association.	J. H. Edwards	1	.....	.....	9	.....	.....	.....	9
1128	Reidsburg	Nichols' Training School; Reidsburg Institute.	A. W. Nichols, A. M., M. D.	1	1	11	.....	.....	.....	.....	12
1129	Rochester	Private instruction..	Paul Bramwell....	1	2	.....	.....	.....	.....	.....	2
1130	Scranton.....	Coston's School of Shorthand and Typewriting.	S. B. Coston	1	9	3	10	.....	.....	.....	22
1131	do	Wood's Business College.	Minni E. Creighton.	3	74	54	32	9	.....	.....	169
1132	Sellersville	Private instruction ..	H. T. Williams....	1	2	.....	.....	.....	.....	.....	2
1133	Shamokin	Shamokin Business College.	Wm. F. Magee	1	3	1	8	.....	.....	.....	12
1134	Shenandoah	Shenandoah.....	W. M. Shaffer.....	1	15	8	12	1	.....	.....	36
1135	Somerset	Private instruction..	Peter Vogel.....	.....	.....	.....	3	2	.....	.....	5
1136	South Bethlehem.	do	John Bramwell ...	1	.....	.....	2	1	.....	.....	3
1137	Spring City.....	do	Mrs. W. K. Setzler	1	3	12	1	1	.....	.....	17
1138	Steelton	Private instruction..	Arthur A. Smith .	1	.....	.....	10	.....	.....	.....	10
1139	Tyrone	First English Lutheran Sunday School.	R. N. Waring	1	.....	.....	14	.....	.....	.....	14
1140	do	Public Shorthand Class, Tyrone Borough Schools.	Miss A. M. Klos and B. F. Pinkerton.	2	28	52	.....	.....	.....	.....	80

a 30 per annum.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Oct. 1, 1889	80	Cross's shorthand.	Remington (3), Caligraph (3), Hammond (3).	6 months	26	Membership in association (pupils by mail, \$30 per 6 months.)	1114
1886.....	.....	Scott-Browne's phonography.	Caligraph	4 months	.....	\$25 for 6 months ..	1115
1874.....	(a)	Graham's phonography.	Yost (1).....	2 years....	40	Free.....	1116
1882.....	.....	Graham's, Munson's, and Benn Pitman's phonography.	Remington, Caligraph, and Smith.	1 year	40	\$55	1117
1886.....	350	Graham's phonography.	Hammond (3), Caligraph (5), Remington (2).	9 months..	53	\$40 for 6 months..	1118
Jan. 1, 1888	20	Pitman's phonography.	Remington .....	.....	40	\$25 a year.....	1119
Oct., 1884	188	Graham's phonography.	None	12 months.	26	Membership in Association, \$5.	1120
.....	*100	Pernin's shorthand.	Remington (2) ...	3 to 6 mos.	36	\$10 per month	1121
Sept. 1, 1886	182	Scott-Browne's phonography.	Remington (2), Caligraph (1).	4 months	52	\$15 for 25 lessons..	1122
Nov. 1, 1884	53	do	Remington and Caligraph (3).	6 months	14	\$10 for 20 lessons..	1123
1887.....	31	Benn Pitman's phonography.	Caligraph	3 months	.....	\$5 for 15 lessons...	1124
May 1, 1887	25	Scott-Browne's phonography.	Caligraph (2)	do .....	.....	50 cents per lesson	1125
1883.....	.....	Benn Pitman's phonography.	Remington	do	48	\$10.....	1126
Nov., 1889	9	Isaac Pitman's phonography.	None	4 months	.....	\$20 per season	1127
Apr. 18, 1890	12	Benn Pitman's phonography; also Eames' shorthand.	Caligraph	3 months	40	\$6.25 per session of 10 weeks.	1128
.....	.....	Isaac Pitman's phonography.	.....	.....	.....	.....	1129
Sept. 26, 1888	.....	Benn Pitman's and Graham's phonography.	Remington (3) ...	6 to 9 mos.	52	\$15 for 3 months ..	1130
Jan. 1, 1882	*600	Graham's phonography.	Caligraph and Remington.	6 months	53	\$7.50 per month...	1131
July, 1889	2	Benn Pitman's phonography.	do	do .....	.....	\$20 for 50 lessons..	1132
May 1, 1890	12	Cross's shorthand.	Remington (1) ...	.....	52	\$25 for course.....	1133
.....	36	do	Remington	4 to 6 mos.	.....	\$25.....	1134
1888.....	7	Lindsley's tachygraphy.	do .....	.....	.....	\$15, corresponding style; \$20 amanuensis style; \$30 reporting style.	1135
Sept. 10, 1884	15	Isaac Pitman's phonography (Americanized).	Remington (1) ...	5 to 10 mos	.....	\$40 for course.....	1136
Mar. 25, 1890	17	Benn Pitman's phonography.	Hammond	9 to 11 mos	.....	\$20.....	1137
1887.....	15	Benn Pitman's phonography.	Yost (1), Remington (1), Caligraph (1).	2 years....	.....	\$5 per month.....	1138
Apr. 3, 1890	14	Isaac Pitman's phonography.	None	10 months.	45	Free.....	1139
Sept. 1889	80	Benn Pitman's phonography and McKee's shorthand.	do	4 years....	36	do	1140

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
PENNSYLVANIA—continued.											
1141	Waterford	Waterford Academy.	Miss R. Aten	2	5	10	.....	.....	.....	.....	15
1142	Wilkes-Barre...	Normal Business College.	G. B. Mallery	2	2	.....	3	.....	.....	.....	5
1143	do	School of Phonography and Typewriting.	Miss S. L. Brewer.	2	3	5	5	6	2	2	13
1144	do	School of Shorthand and Typewriting, Wilkes-Barre Business College.	Miss Ray D. Griffith.	1	15	10	6	2	.....	.....	33
1145	Williamsport ...	Pott's Shorthand and Business College.	Chas. R. Pott.....	3	81	56	144	21	312	119	733
1146	do	Williamsport School of Shorthand; Williamsport Commercial College.	Miss Sarah Chatham.	1	.....	.....	.....	.....	.....	.....	*120
1147	do	Young Men's Christian Association.	Mrs. Robert Jaggard.	2	.....	.....	7	.....	.....	.....	7
1148	York	Bachelder's Business College.	J. M. Bachelder...	1	9	3	8	1	.....	.....	21
1149	do	High School	A. Wanner	1	6	18	.....	.....	.....	.....	24
1150	do	Private instruction..	S. B. Drenning	1	2	.....	.....	.....	1	.....	3
1151	do	do	J. T. Rubie.....	1	.....	.....	11	1	.....	.....	12
1152	do	do	W. C. Sudick.....	1	.....	.....	6	.....	.....	.....	6
1153	do	Young Men's Christian Association.	C. H. Torrington..	2	.....	.....	13	.....	.....	.....	13
RHODE ISLAND.											
1154	East Greenwich.	The East Greenwich Academy.	Mrs. H. M. Whedon	1	5	6	.....	.....	.....	.....	11
1155	Providence	La Salle Academy ...	Rev. Bro. Josiah..	2	60	.....	.....	.....	.....	.....	60
1156	do	Private instruction..	Caroline Louisa Atwell.	1	.....	.....	.....	1	.....	.....	1
1157	do	do	Maria Budlong...	1	.....	1	.....	.....	.....	.....	1
1158	do	do	Etta A. Corbin...	1	.....	.....	.....	.....	.....	.....	7
1159	do	do	T. J. Griffin	1	.....	.....	2	2	.....	.....	4
1160	do	do	Augustus T. Swift	1	3	.....	.....	.....	2	.....	5
1161	do	do	J. C. Thompson ..	1	.....	.....	.....	1	.....	.....	1
1162	do	do	D. Webster.....	1	1	.....	.....	3	.....	1	5
1163	do	Rhode Island Shorthand College.	Mrs. Eldora J. Schofield.	2	.....	.....	43	84	2	3	132
1164	do	Schofield's Commercial College.	A. R. Abbott.....	1	3	6	.....	.....	.....	.....	9
1165	do	Shorthand School, Bryant and Stratton Business College.	W. Henry Kinyan.	1	10	50	16	3	.....	.....	79
1166	do	Spencerian Business College.	E. Thompson	1	.....	18	.....	.....	.....	.....	18
1167	do	Young Men's Christian Association.	George Farnell ...	1	.....	.....	15	.....	.....	.....	a 15
1168	Woonsocket	School of Shorthand	A. M. Hubbard ...	2	2	4	3	8	2	9	28

a The class of 1890-'91 consisted of 25 males.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1889.....	15	Longley's phonography.	Remington	6 months..	39	.....	1141
Mar. 1, 1890	5	Lindsley's tachygraphy and the stenograph.	Remington (1), National (1).	...do	52	\$40 for Lindsley's system; \$20 for stenograph.	1142
1884.....	.....	Burnz's phonography.	Caligraph (2)	3 to 6 mos.	52	\$15 per month; \$75 for scholarship.	1143
Jan., 1887	40	Benn Pitman's phonography.	Remington (1), Caligraph (2).	6 months..	52	\$50.....	1144
1882.....	*1,600	Graham's phonography.	Smith (10); Remington (1), Caligraph (1), Hammond (1).	4 months..	52	.....	1145
About 1884..	.....	Graham's phonography and Lindsley's tachygraphy.	Remington, Caligraph, Hammond.	.....	52	\$40.....	1146
1889.....	17	Graham's phonography.	Caligraph (1)	1 winter ..	24	\$2.....	1147
1887.....	.....	Munson's phonography.	Remington	6 to 8 mos.	52	\$40.....	1148
1889.....	24	do .....	.....	1 year.....	36	Free.....	1149
July, 1886	10	Cross's shorthand.	None	5 months..	.....	50 cents per lesson.	1150
1888.....	12	Benn Pitman's phonography.	Remington (2) ...	6 months..	48	50 cents per lesson; \$20 for course.	1151
July, 1887	10	do	Remington	6½ months.	52	50 cents a lesson..	1152
Jan. 1, 1886	42	do .....	.....	.....	24 to 28	Membership in Association \$5.	1153
Sept., 1888	13	Benn Pitman's phonography.	Remington (1) ....	.....	40	\$45.....	1154
Oct., 1878	275	Graham's phonography.	Remington	3 years for verbatim reporting	40	\$30 a year.....	1155
Jan., 1890	1	Benn Pitman's phonography.	.....	3 months ..	.....	\$25.....	1156
1888.....	3	do .....	.....	9 months..	.....	\$25.....	1157
1886.....	15	Graham's phonography.	Caligraph	1 year... ..	50	\$1 per lesson.....	1158
.....	.....	Benn Pitman's phonography.	Remington (1) ...	24 weeks..	.....	\$40.....	1159
1884.....	25	do	do	Depends on pupil's ability.	.....	50 cents per lesson.	1160
1850.....	300	do	do	10 weeks..	.....	\$10 for 10 lessons..	1161
*1880.....	*30	Graham's phonography.	None	1 year or until qualified.	.....	\$1 per lesson.....	1162
1876.....	871	Benn Pitman's, Munson's, and Graham's phonography.	Remington .....	.....	.....	\$40.....	1163
1883.....	.....	do	Caligraph	3 months..	48	\$30.....	1164
Sept., 1887	*130	Munson's phonography.	Remington	3 to 5 mos.	40	\$40 per term of 20 weeks.	1165
1885.....	30	Benn Pitman's phonography.	Remington and Caligraph.	3 to 6 mos.	.....	\$30.....	1166
1885.....	*100	Isaac Pitman's phonography.	Caligraph	20 weeks..	20	\$2.....	1167
Sept. 1, 1889	17	Benn Pitman's phonography.	Remington (1) ...	3 to 6 mos.	52	\$40 at school \$20 by mail.	1168

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
SOUTH CAROLINA.											
1169	Charleston	Private instruction..	Miss Lula Lee	1	1	5					6
1170	Clinton	Thornwell Orphanage	Wm. P. Jacobs....	1	2	2					4
1171	Columbia.....	Benedict College	C. E. Becker	1	2						2
1172	Hartzog	Hunter's Chapel, Calisthenic Academy.	Henry S. Hartzog.	1	9	11					20
1173	Newberry	Newberry College ...	W. C. Shott	1	4		2				6
SOUTH DAKOTA.											
1174	Brookings	South Dakota Agri- cultural College.	V. B. Vallean	1					11	7	18
1175	Hot Springs	Black Hills College..	Mattie C. Allen...	1	2						2
1176	Madison.....	Private instruction..	Mrs. H. E. St. Clair	1	1	2					3
1177	Redfield	Redfield College	I. A. Shanton	1							11
1178	Sioux Falls	Ivey's Shorthand and Typewriting School, University of Sioux Falls.	Chas. J. Ivey.....	1	10	15					25
1179	Spearfish	State Normal School.	F. L. Cook	1	12	4					16
1180	Watertown.....	School of Shorthand and Typewriting, Watertown Com- mercial College.	Mrs. H. L. Wins- low.	3							125
TENNESSEE.											
1181	Chattanooga....	Private instruction..	T. W. Haigler.....	1	6	2			1		9
1182	do	School of Stenog- raphy, Mountain City Business Col- lege.	J. W. Agey	3	4	37	6	3			50
1183	Columbia.....	Columbia Athenæum	Miss Bessie Shaub	1		25					25
1184	Henderson.....	West Tennessee Christian College.	Mrs. S. B. Crump..	1	18	7					25
1185	Knoxville.....	Young's College of Shorthand.	John C. Young....	3	42	57			8	6	113
1186	Memphis	Christian Brothers' College.	Rev. Bro. Leonidas	1	10						10
1187	do	Higbee School	Miss Jennie Falls.	2							
1188	do	J. N. Daniel's Busi- ness School.	J. N. Daniel.....	1		1			2		3
1189	do	Leddin Business College.	Miss Laura V. Slaughter.	1	6	54	3	2			65
1190	do	Private instruction ..	Miss Mai Ellis....	1	3	6	2				11
1191	do	Memphis Baptist Bible Institute; private instruction.	R. N. Countee.....	1	8	2			8	2	20
1192	do	St. Agnes Academy..	Sister Veronica Livers.	1		8					8
1193	do	St. Bridget's School..	Rev. P. Clement Moormann, O. S. F.	1							

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Jan., 1884	39	Burnz's phonography.	Hammond	9 months .....	.....	50 cents a lesson ..	1169
1880.....	10	Benn Pitman's phonography.	Remington	do	40	Free	1170
Oct., 1889	2	Anderson's shorthand machine.	Hammond, Caligraph, Remington, and Hall.	.....	35	No extra charge for pupils in regular course.	1171
Jan. 1, 1890	20	Benn Pitman's phonography.	None	6 months ..	40	\$3 per month for outside scholars.	1172
Dec. 1, 1888	7	Porter's shorthand	Caligraph (1)	do	34	\$20.....	1173
1887.....	45	Lindsley's tachygraphy.	Smith (4), Remington (4).	1 year	36	\$1 for 12 weeks....	1174
Sept. 11, 1889	.....	Benn Pitman's phonography.	Yost.....	6 months ..	36	\$10 per month.....	1175
Feb. 28, 1890	3	do	Remington	do	52	\$40.....	1176
Sept., 1888	*25	Benn Pitman's phonography.	None	1 year.....	39	\$30.....	1177
Mar. 20, 1888	69	Graham's phonography.	Remington (1), Smith (1).	3 to 5 mos ..	52	\$10 per month	1178
Sept., 1886	65	Munson's phonography.	Remington (4) ..	1 year.....	38	Free	1179
Jan., 1888	.....	Graham's and Moran's phonography.	National and Remington (4).	6 months, amanuensis; 12 months, reporting style.	52	\$50 for 6 months ..	1180
1888.....	8	Benn Pitman's phonography.	.....	6 months.....	.....	\$3 per month.....	1181
July, 1886	*180	Munson's phonography and the stenograph.	Remington, Hammond, Caligraph, and Yost (5).	4 to 6 mos ..	44	\$70 per year	1182
Aug., 1888	25	Benn Pitman's phonography.	Caligraph .....	.....	40	\$5 per month.....	1183
Sept., 1889	25	Longley's phonography.	do	3 to 6 mos ..	38	\$2.50 to \$5 per month.	1184
Dec., 1887	150	Munson's phonography.	Caligraph (10), Remington (5), Hammond (1).	4 to 6 mos ..	52	\$50 for course	1185
1887.....	34	Benn Pitman's phonography.	Caligraph (2), Remington (1).	40 weeks..	40	In regular course.	1186
Sept., 1888	20	Pitman's phonography.	Remington .....	.....	38	\$12 per month.....	1187
.....	7	Benn Pitman's phonography.	do	6 to 12 mos ..	52	\$3 to \$10 per month	1188
.....	.....	Benn Pitman's and Munson's phonography.	Remington, Caligraph, and Smith.	6 to 8 mos ..	52	\$45 for 6 months ..	1189
.....	9	Anderson's shorthand typewriter.	Remington (2) ...	4 to 6 wks ..	.....	\$5 per week.....	1190
.....	.....	Pernin's shorthand.	Caligraph.....	8 weeks for principles.	.....	\$10.....	1191
Jan., 1890	8	Cross's shorthand.	Caligraph (1) ....	.....	42	.....	1192
Sept., 1888	30	Benn Pitman's phonography.	Caligraph (2)	3 to 7 mos ..	40	\$1 per month additional for day pupils; \$2 per month at night school.	1193

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
TENNESSEE—con.											
1194	Memphis	St. Mary's School....	Rev. P. Clement Moormann, O. S. F.	1							
1195	Nashville	Central Tennessee College (colored).	Reuben A. Sealy..	1	11	7					18
1196	do	Roger Williams Shorthand Institute, Roger Williams University.	D. R. Leland	1	13						13
1197	do	Nashville Shorthand Institute.	Alexander Fall...	2	72	144	21	43	17		297
1198	Sewanee.....	University of the South, private instruction.	John Lewis.....	1	12	3					15
TEXAS.											
1199	Austin	Capital Business College.	J. H. Osborne	2	8	6	5				19
1200	do	St. Edward's College.	B. Stanislaus Clarke.	4	14						14
1201	do	Texas Business College.	Mrs. Alice L. Walden.	2							
1202	Belton	Baylor Female College.	Marian Spencer...	1		2					2
1203	Corsicana.....	Corsicana Phonographic Circle.	Thos. Jno. Storr ..	1	10	2	10	2		1	25
1204	Dallas	Dallas Business College.	Miss Bell Anul ...	1	*10	*20	10	10			*50
1205	do	Hill's Business College.	J. W. Butcher.....	1	10	13	15		2	3	43
1206	do	Private instruction ..	Rose Rosenthal...	1	6	9	3	1	1	1	21
1207	Denison	Gate City Business College.	F. E. Barnes	1	2	5					7
1208	El Paso.....	Private instruction..	E. E. Russell.....	1	1	2					3
1209	Fort Worth	Fort Worth Business College.	Miss Sybil Emery	1	40	70					110
1210	Galveston	Conyngton Business College.	Miss Lucie H. Gerdine.	1	53	123					176
1211	Glen Rose	Glen Rose Collegiate Institute.	W. A. Bolles.....	1	1	2				2	5
1212	Houston.....	Private instruction.	M. A. Grant	1	22	8					30
1213	Marshall	do	Mrs. Thos. Bell ...	1							
1214	New Braunfels ..	do	August Klingemann.	1	7	7					14
1215	Palestine	do	John W. Vossler..	1	1		2				3
1216	Paris	Texas Business College.	Leon M. Estabrook	2							
1217	San Antonio	St Mary's College....	John Wolfe.....	1	16						16
1218	Sherman.....	Mahan's Commercial College.	A. W. South	1	11	8	4				23
1219	Sulphur Springs	Private instruction..	Mrs. C. E. Jones ..	1	1	1					2
1220	Texarkana.....	Draughon's Practical Business College.	N. S. Kernan.....	1	10	5			3		18

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1888	27	Benn Pitman's phonography.	Caligraph (1)	3 to 7 mos.	40	\$1 per month additional for day pupils; \$2 per month at night school.	1194
Nov., 1889	18	do	Remington (1) ...	1 year.....	36	\$3 per month	1195
1890.....	13	Graham's and Scott-Browne's phonography.	Remington	12 months.	32	\$30 for course.....	1196
Nov. 1, 1885	596	Benn Pitman's phonography.	Caligraph (7), Remington (1), Yost (1).	6 months..	52	\$65, or \$12.50 per month.	1197
May, 1890	15	Pernin's shorthand.	Remington (1) ...	6 to 8 mos.	40	\$5 per month	1198
Apr. 1, 1888	34	Benn Pitman's, Isaac Pitman's, and Munson's phonography.	Caligraph (2), Crandall (1).	4 months .	48	\$25.....	1199
1887.....	25	Isaac Pitman's phonography.	Remington and Crandall.	.....	40	\$20 for 40 weeks ..	1200
.....	.....	Lindsley's tachygraphy.	Caligraph (3).....	.....	.....	\$50 for 6 months ..	1201
Sept., 1888	12	Benn Pitman's phonography.	Remington	2 years....	40	\$4.....	1202
Jan., 1888	*30	Benn Pitman's phonography.	Caligraph.....	3 to 4 mos. ....	.....	\$30 for course.....	1203
1882.....	.....	The stenograph <i>a</i> .	do	4 months .	52	\$60.....	1204
Jan., 1888	58	Graham's phonography.	Caligraph (3)....	3½ to 5 mos	52	\$40 full course	1205
1883 .....	.....	Benn Pitman's phonography.	Remington and Caligraph.	3 to 6 mos. ....	.....	\$40.....	1206
Jan. 7, 1890	7	Lindsley's tachygraphy.	Caligraph (2), Remington (1).	4 months .	.....	\$50 for scholarship; \$10 per month.	1207
Jan. 1889	3	do	Hammond .....	.....	.....	.....	1208
1884.....	*600	The Stenograph ..	Caligraph (5)	About 4 months.	42	\$60.....	1209
Apr. 1886	437	Graham's phonography and Pernin's shorthand.	Remington (8), Hammond (4).	3 to 6 mos.	52	\$12.50 per month, tuition only; \$75 for 6 months, including books and stationery.	1210
1889.....	3	Graham's phonography.	Remington	3 months..	36	\$5 per month	1211
June 15, 1890	30	Munson's and Day's phonography.	Remington (1), Caligraph (1), National (1).	6 months..	52	\$5 per week.....	1212
.....	6	Longley's phonography.	.....	.....	.....	\$5 per month	1213
Nov. 7, 1887	16	Isaac Pitman's phonography.	.....	A few years.	40	\$2 per month	1214
.....	3	Isaac Pitman's phonography.	Yost (1).....	.....	.....	.....	1215
1888.....	.....	Benn Pitman's phonography.	Remington (1), Caligraph (2).	About 6 months.	52	\$50 for 6 months ..	1216
Sept. 15, 1888	30	Pernin's shorthand.	Remington	1 year	40	No extra charge for shorthand.	1217
1887.....	.....	Graham's phonography.	Caligraph (3)	4 to 6 mos. ....	.....	\$10 per month; \$50 for 6 months.	1218
Mar. 7, 1890	2	Sloan-Duployan shorthand.	Caligraph	3 to 4 mos. ....	.....	\$5 per month	1219
.....	15	Pernin's shorthand.	Remington and Caligraph.	12 weeks..	.....	\$25 per course	1220

a January 1, 1891, the Benn Pitman system was introduced; W. A. Throp, teacher.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Even- ing.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
TEXAS—cont'd.											
1221	Thorps Spring.	School of Shorthand and Typewriting, Add Ran Christian University.	Mrs. J. B. Cook ...	1	12	13	.....	...	1	1	27
1222	Tyler.....	College of Phonog- raphy.	C. Hansen	1	4	2	9	.....	.....	.....	15
1223	Waco	Baylor Shorthand Institute, Baylor University.	B. F. Stuart	1	37	3	.....	.....	.....	.....	40
1224	do	Hill's Business Col- lege.	A. Ragland	1	8	3	.....	.....	.....	.....	11
1225	Weimar	Private instruction..	David Matthews..	1	.....	.....	6	2	.....	.....	8
UTAH.											
1226	Murray.....	Private instruction..	James Sanders ...	1	.....	.....	7	.....	.....	.....	7
1227	Provo City	Brigham Young Academy.	H. A. Anderson...	1	21	4	2	1	2	3	33
1228	Salt Lake City..	Latter-day Saints' College.	Willard Done.....	1	*25	*10	.....	.....	.....	.....	*35
1229	do	Practical Shorthand College.	Emily C. Curtiss..	3	26	38	10	2	3	3	82
1230	do	Stiehl's Business College.	Leon P. Stiehl	1	.....	.....	.....	.....	.....	.....	.....
1231	Springfield	Hungerford Acad- emy. Private in- struction.	L. B. Work	1	1	3	.....	.....	.....	.....	4
VERMONT.											
1232	Brattleboro	Private instruction ..	Florence E. Clark.	1	.....	.....	.....	.....	.....	.....	.....
1233	Burlington	Burlington Business College.	E. G. Evans.....	1	5	13	.....	.....	.....	.....	18
1234	Northfield	Private instruction..	C. B. Riggs.....	1	7	5	.....	.....	.....	.....	12
1235	Poultney	Troy Conference Academy.	W. A. Frasier.....	1	4	5	.....	.....	.....	.....	9
1236	Rutland	Private instruction ..	Ella M. Ballou....	1	2	4	.....	.....	.....	.....	6
1237	Waterbury Cen- ter.	Green Mountain Seminary.	Miss Cora B. Hun- ter.	1	4	1	.....	.....	.....	.....	5
VIRGINIA.											
1238	Blacksburg.....	Virginia Agricultu- ral and Mechanical College.	W. H. Graham	1	16	.....	.....	.....	.....	.....	16
1239	Bridgewater....	Bridgewater College.	F. M. Stutsman ...	1	8	.....	.....	.....	.....	.....	8
1240	Glade Spring ...	Southwest Virginia Institute.	Miss Jessica A. Yates.	1	3	13	.....	.....	.....	.....	16
1241	Hampton	Private instruction..	V. P. Holt	1	.....	3	.....	.....	.....	.....	3
1242	Norfolk.....	Norfolk Academy ...	K. C. Murray	1	6	.....	.....	.....	.....	.....	6
1243	do	Norfolk Business College.	Miss T. C. Hope ..	2	17	9	7	.....	.....	.....	33
1244	do	Private instruction..	W. Boettcher	1	5	9	10	2	.....	1	27
1245	do	do	W. L. Calwell.....	1	8	2	.....	.....	1	.....	11

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1889	25	Lindsley's tachygraphy.	Remington (2) ...	6 months..	36	\$2.50 per month...	1221
Feb. 3, 1890	15	Haven's phonography.	Caligraph	3 months..	52	\$50 for course.....	1222
1887.....	*40	Lindsley's tachygraphy.	Remington (2), Caligraph (3), Hammond (1).	5 months..	52	\$40.....	1223
Mar. 14, 1888	24	Benn Pitman's phonography.	Remington and Caligraph.	6 months..	52	\$50.....	1224
1878.....	12	Isaac Pitman's phonography.	.....	About 3 months.	.....	Various.....	1225
May 2, 1890	7	Benn Pitman's phonography.	Yost (1) .....	.....	.....	.....	1226
1876.....	*140	do	Hammond (1), Remington (1).	1 year	40	\$8 for study per annum, \$40 for complete academic course.	1227
Jan. 27, 1887	*60	do .....	.....	20 weeks..	40	.....	1228
Mar. 1, 1890	78	Graham's phonography.	Remington (6) ...	3 to 6 mos.	48	\$15 per month.....	1229
1890.....	.....	Graham's, Pitman's, and Munson's phonography.	Remington and Hammond.	6 months..	52	\$60 scholarship ...	1230
Oct., 1889	4	Benn Pitman's phonography.	.....	.....	.....	.....	1231
.....	.....	Benn Pitman's phonography.	Hammond .....	.....	.....	50 cents a lesson ..	1232
1884.....	*50	Munson's phonography.	Remington (1), Caligraph (1).	6 months .	40	\$56.....	1233
Nov. 12, 1889	12	Benn Pitman's phonography.	Remington and Caligraph.	6 months .	.....	25 cents a lesson ..	1234
Sept. 3, 1889	12	Graham's and Benn Pitman's phonography.	Caligraph	39 weeks..	39	\$10 per term of 13 weeks.	1235
Jan. 1, 1889	6	Benn Pitman's phonography.	do .....	.....	.....	75 cents per lesson.	1236
Sept. 30, 1889	5	Graham's phonography.	do	1 school year.	36	\$18.....	1237
Oct., 1885	*95	Munson's phonography.	Remington (3)...	9 months .	52	.....	1238
Sept. 11, 1889	8	Cross's shorthand	Remington (1)...	1 season ..	36	\$15 for course.....	1239
Sept. 12, 1889	16	Benn Pitman's phonography.	Caligraph (3), Remington (1).	2 years ...	36	\$30 full course	1240
.....	3	do	None .....	.....	.....	Nominal.....	1241
Sept., 1889	6	Scott-Browne's phonography.	.....	2 years ...	.....	Included in regular course.	1242
Sept. 9, 1889	26	Munson's phonography.	Remington	6 months .	52	\$30 for 3 months ..	1243
Oct. 1, 1888	42	Scott-Browne's phonography.	Caligraph (3), Remington (1).	5 to 8 mos.	40	\$7.50 per month private instruction; \$5 per mo. in class.	1244
.....	14	Benn Pitman's phonography.	Remington	6 to 9 mos. ....	.....	50 cents per lesson.	1245

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

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					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
VIRGINIA—cont'd.											
1246	Norfolk.....	Young Men's Christian Association.	W. J. King	1			17				17
1247	Petersburg	Private instruction..	James Hancock...	1			12				12
1248	Richmond	Private instruction..	O. Raymond Brown	1			30	4			34
1249	do	Richmond College.	C. C. Crittenden ..	1	6						6
1250	do	Private instruction..	Sylvanus Jones...	1		1	8	2			11
1251	do	St. Joseph's Academy	Sister	1		12					12
1252	do	Smithdeal Business College.	Miss B. Brill.....	1	24	17	5	2	7	2	57
1253	Roanoke.....	National Business College.	Miss Clara Fortna	2	6	3	1				10
1254	do	Private instruction..	G. Graham Anderson.	1			12				12
1255	Salem.....	Acme Shorthand School.	Julian L. Swindell	1			5				5
1256	Spottswood.....	Valley High School..	Rev. James M. Schreckhise.	1	6						6
1257	Staunton	School of Stenography and Typewriting, Wesleyan Female Institute.	C. H. Bucher.....	1	2	9					11
1258	Stuart	Virginia Business College.	Miss P. L. Monroe.	1	19	12			4	4	39
WASHINGTON.											
1259	Seattle.....	Private instruction..	Mrs. Florence A. Thomas.	1	4	21	3	7			a35
1260	Sehome.....	do	J. W. Manuel	1			2				2
1261	Spokane	Spokane College	H. C. Blair	1	3	2					5
1262	do	Spokane Business College.	S. J. Shaw	1	7	15					22
1263	Tacoma.....	Tacoma Business College.	J. W. Tait	3	23	30	11	4	6	3	77
1264	Vancouver	Mrs. E. O. Gardner's Shorthand Class.	Mrs. E. O. Gardner	1							21
1265	Waitsburg	Waitsburg Academy.	Merwin Pugh	1	3	3					6
1266	Walla Walla....	Empire Business College.	Mrs. J. F. Stubblefield.	1	2	3					5
WEST VIRGINIA.											
1267	Bethany	Private instruction..	F. A. Chapman....	1	6	2					8
1268	do	Bethany College.....	Melancthon Moore	1	6	5					11
1269	do	Private instruction..	H. C. Tener	1	1	4					5
1270	Fairmont	Fairmont State Normal School.	J. M. Yates	1	15	4					19
1271	do	Fairmont Shorthand and Typewriting Institute, Mountain State Business College.	A. G. Sine.....	1	18	5					23

a Some of these pupils were taught at Spokane Falls, Wash.

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Oct. 1888	32	Benn Pitman's phonography.	Remington (1)...	1 term	25	\$4.....	1246
Apr. 1890	12	do	None .....	.....	.....	\$3 per month.....	1247
Nov. 1882	*150	Graham's phonography.	Remington (1), Caligraph (1).	5 months .....	.....	\$25 for 40 lessons..	1248
1889.....	6	Benn Pitman's phonography.	.....	6 months ..	9	5 per month	1249
Jan. 1890	11	Isaac Pitman's phonography.	None .....	.....	52	\$3 per month for 2 lessons each week.	1250
Sept. 1, 1889	12	Pernin's shorthand.	Remington and People's	1 year.....	10	\$1 per month	1251
May 6, 1887	57	Barnes's phonography.	Remington, (1), Yost (2), National (1).	4 to 6 mos.	52	\$50 full course....	1252
Feb. 15, 1890	15	McKee's shorthand.	Yost, Remington, Caligraph, and Smith.	3 to 4 mos.	52	\$50.....	1253
.....	19	Isaac Pitman's phonography.	None	1 year.....	52	\$2 per month	1254
May 11, 1890	5	Mulvey's shorthand.	Remington (2)...	3 months ..	12to 14	\$25 full course....	1255
Sept. 1, 1889	6	Benn Pitman's phonography.	Remington	18 months.	36	\$12 for 9 months..	1256
Sept. 27, 1889	11	Scovil's shorthand	Caligraph (2)	7 months ..	28	\$30.....	1257
July 5, 1889	39	Pernin's shorthand.	Remington and Caligraph.	3 to 5 mos.	52	\$40.....	1258
.....	*200	Benn Pitman's and Graham's phonography.	Remington .....	.....	52	\$10 per month	1259
Apr. 1890	2	Benn Pitman's phonography.	do .....	.....	52	\$5 per month	1260
Sept. 1889	5	do	Remington (1) ...	.....	38	\$1.25 per week	1261
Dec. 1887	71	Munson's phonography. <i>b</i>	Remington	6 months ..	52	\$50.....	1262
Sept. 1888	87	Graham's, Pitman's, and Scott-Browne's phonography.	Remington (3) ...	4 to 6 mos.	42	\$40 for 6 months ..	1263
Oct. 21, 1889	21	Bronson's phonography.	Remington	About 4 months.	.....	\$35 for course.....	1264
Sept. 1889	6	Graham's phonography.	None	1 school year.	39	\$15 for 13 weeks ..	1265
Sept. 1888	15	do	Remington (1) ...	1 year.....	39	\$25 per quarter....	1266
1884.....	.....	Benn Pitman's phonography.	None	10 months.	40	\$10.....	1267
1882.....	.....	do .....	.....	1 year.....	40	50 cents per week.	1268
.....	.....	Isaac Pitman's phonography.	.....	40 weeks..	40	\$10.....	1269
Sept., 1888	*100	Benn Pitman's phonography.	Caligraph.....	3 months..	40	\$7 to \$15	1270
Oct. 15, 1888	43	do	Caligraph (2)	4 to 5 mos.	.....	\$25.....	1271

b Since the time specified the Pernin system has been taught, and Remington, Caligraph, Hammond, and Smith typewriters used.

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	WEST VIRGINIA—continued.										
1272	Flemington.....	Taylor County Classical Institute.	W. Colegrove	1	3		2				5
1273	Grafton.....	Private instruction..	John S. Hechmer ..	1	4	2					6
1274	Huntington.....	do	Miss Aggie Thompson.	1		6					6
1275	Keyser	do	C. Van Spencer ...	1			10	13	20	30	73
1276	Wheeling.....	do	T. M. Carvin.....	1							15
1277	do	do	Louis E. Shrader..	1	2	8					10
1278	do	School of Shorthand, Wheeling Business College.	Miss S. J. Carroll ..	1	7	25	5	5		1	43
	WISCONSIN.										
1279	Alverno	Holy Family Institute.	.....	1		2					2
1280	Appleton.....	De Land's Business College.	Miss Christina McNabb.	1	11	12					23
1281	Chippewa Falls.	Chippewa Falls Business College.	C. H. Howieson ...	1	15	5	2	1			23
1282	Eau Claire.....	College of Commerce.	R. O. Stoll.....	1		5	1	2			14
1283	do	Eau Claire Stenographic School; Curtis' Commercial College.	Mrs. M. J. Lanphear.	2	11	15	3	8	3	1	41
1284	Fond du Lac....	Mann's Commercial College.	S. D. Mann	1	7	10	3	4			24
1285	Green Bay.....	Green Bay Business College.	Margaret Longneckard.	1	2	14	1	1	1		19
1286	Janesville	Janesville School of Shorthand and Typewriting; Valentine's School of Telegraphy.	Miss E. L. Williams.	3							304
1287	do	Private instruction ..	Mrs. Dale Warner.	1					3	3	6
1288	do	do	H. Baldwin Dean ..	1		3		6			9
1289	do	Sander's School of Phonography.	J. W. Sanders.....	2	41	31	13	10	6	11	112
1290	La Crosse.....	La Crosse Business College.	Linnie P. Wallace.	1	6	15	3				24
1291	do	Private instruction ..	Mrs. E. M. Tuthill.	1			1	2			3
1292	Madison	Northwestern Business College.	E. T. Heassler	1	12	19					31
1292½	Marinette	Private instruction..	Mrs. Mattie D. Cressey.	1		3		2			5
1293	Milwaukee	Charles Mayer's Commercial College.	Charles Mayer....	3	22	24					46
1294	do	Gabelsberger-Richter Shorthand Society, Concordia Literary Society.	Gustav Wollae-ger, jr.	1			12				12
1295	do	McDonald's Central College.	Alex. C. McDonald.	2	100		25				12
1296	do	Milwaukee High School.	Jane Bowen Passmore.	1	46	36					82
1297	do	Spencerian Business College.	Miss Sue V. Brown	2	15	49	8	3			75
1298	do	Wilmot's Business and Shorthand College.	H. M. Wilmot.....	2	20	45	8	6	4	6	89

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Type writers used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
1887.....	12	Benn Pitman's phonography.	.....	.....	40	\$20 per year	1272
Sept., 1888	6	do	None .....	.....	.....	.....	1273
Oct. 14, 1889	6	do	Caligraph .....	.....	.....	.....	1274
.....	50	do .....	.....	1 year .....	.....	\$5	1275
1875.....	.....	Graham's and Benn Pitman's phonography.	Remington (2)	do	52	\$100	1276
.....	.....	Benn Pitman's phonography.	Hammond	4 months .....	.....	\$20 for 24 lessons ..	1277
Sept., 1883	150	Graham's phonography.	Caligraph (5)	4 to 6 mos.	52	\$40	1278
1888.....	4	Pernin's shorthand.	Caligraph	4 months .....	.....	\$12	1279
Oct. 15, 1888	51	Osgoodby's phonography.	Remington (2)	6 to 12 mos	40	\$25 for 3 months ..	1280
1887.....	50	Graham's phonography.	Remington	6 to 7 mos.	51	\$50 for 6 months ..	1231
.....	14	Benn Pitman's phonography.	Remington (1)	3 to 6 mos. ....	.....	\$25 for 3 months ..	1282
Apr. 2, 1888	70	Munson's phonography.	Remington (2)	4 months	52	\$30 for 6 months ..	1283
Sept., 1884	.....	Lindsley's tachygraphy.	Caligraph	About 6 months.	44	\$15 for 3 months ..	1284
Apr. 9, 1888	38	Graham's phonography.	Remington (2)	4 to 6 mos.	50	\$50	1285
1883.....	643	Cross's shorthand and Graham's phonography.	Remington (8)	3 to 6 mos.	52	\$40	1286
.....	.....	Cross's shorthand.	Remington .....	.....	.....	\$25	1287
1880.....	9	Benn Pitman's phonography.	Caligraph	6 months .....	.....	.....	1288
1888.....	132	Graham's phonography.	Remington (3),	do	52	\$40	1289
Sept., 1887	123	Pernin's shorthand.	Remington (1)	do	52	\$40 for scholarship	1290
1886.....	20	Graham's phonography.	do	3 months .....	.....	\$35	1291
1885.....	148	Benn Pitman's and Graham's phonography.	Remington and Caligraph (5).	5 months	52	\$45 for 5 months or \$10 per month.	1292
.....	7	Lindsley's tachygraphy.	Remington (1)	3 months .....	.....	\$25 for 3 months ..	1292½
1876.....	.....	Graham's phonography.	Remington, Caligraph, Hammond and Crandall (16).	6 to 8 mos.	42	\$50 for 4 months, each additional month, \$10.	1293
July, 1889	12	Gabelsberger-Richter stenography.	.....	4 months .....	.....	50 cents per month fee for membership.	1294
Sept., 1883	*1000	Lindsley's tachygraphy.	Remington and Caligraph.	4 to 6 mos.	52	\$12 per month, day; \$8, evening.	1295
Sept., 1885	*400	Benn Pitman's phonography.	Remington (2)	3 years	36	Free	1296
1883.....	175	do	Remington (8)	6 months	43	\$65 for 6 months ..	1297
1881.....	since 1887.	do	Hammond (1)	4 to 6 mos.	50	\$30 to \$40	1298

Statistics of instruction in shorthand in the United States

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
WISCONSIN—con.											
1299	Oshkosh	Private instruction..	Emma Loper.....	1	.....	1	2	3	.....	.....	6
1300	Prairie du Chien.	St. Mary's Institute.	.....	.....	.....	*10	.....	.....	.....	.....	*10
1301	Rhineland	Private instruction..	A. F. Easton	1	.....	.....	4	6	.....	.....	10
1302	Ripon.....	Ripon School of Shorthand.	Miss Alice Lindenzweig.	1	8	5	2	...	8	5	28
1303	Sheboygan.....	Sheboygan Business College.	Mrs. M. C. Patten.	1	2	7	6	.....	.....	.....	15
1304	Stoughton	Stoughton Academy.	Jens P. Peterson..	2	7	10	.....	.....	.....	.....	17
1305	Watertown	Private instruction..	Elmer Beynon	1	.....	.....	5	1	.....	.....	6
1306	do	do	John A. Beynon ..	1	.....	.....	8	2	.....	.....	10
1307	Waukesha.....	Waukesha Business College.	T. J. Williams	2	7	7	4	3	.....	.....	21
1308	Wausau	Wausau Business College and Academy.	C. M. Boyles	1	14	11	.....	...	8	2	35
1309	West Superior..	Burnett's Business College.	L. Burnett.....	2	30	50	15	20	.....	.....	115
WYOMING.											
1310	Red Canyon	Private instruction..	H. J. Groutage....	1	.....	.....	20	...	7	.....	27

for the scholastic year ended June 30, 1890—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
June 8, 1889	6	Benn Pitman's phonography.	Remington.....	.....	...	\$1 for three lessons	1299
1885	*50	Haven's phonography.	Remington (2) ...	.....	....	\$25 for 5 months ..	1300
Nov., 1889	10	Lindsley's tachygraphy.	Remington (1), Caligraph (1).	.....	.....	.....	1301
June, 1890	24	Moran's phonography.	Remington.....	4 to 6 mos.	48	\$35; by mail, \$30..	1302
Apr. 11, 1887	29	Stenograph	Remington (1) ...	Average 20 weeks.	40	\$15 for 10 weeks, day; \$10, evening.	13 3
Jan., 1889	17	Benn Pitman's phonography modified and Graham's phonography.	do	1 year.....	36	\$6 per term	1304
1887.....	16	Benn Pitman's phonography.	Remington (2) ...	6 months ..	....	\$50 for 6 months ..	1305
Oct. 1, 1889	10	do	Remington (2), Caligraph (1).	do	26	do	1306
Nov. 2, 1889	40	do	Remington (2)...	do	50	\$8 per month.....	1307
Nov., 1886	55	Cross's shorthand.	Remington (2), Yost (1), Hammond (1).	8 months ..	48	\$40 for full course; \$5 for 4 weeks.	1308
Mar. 1, 1890	80	McKee's shorthand.	Remington	3 months for an amanuensis.	50	\$50 for 6 months ..	1309
1884.....	27	Isaac Pitman's phonography.	None	3 months ..	....	\$5 per quarter	1310

SHORTHAND INSTRUCTION.

Shorthand has been disseminated in the United States largely through the efforts of those who, believing it to be worthy of adoption on account of its general usefulness, have taught it to others without regard to compensation.

Professional stenographers have at all times been engaged more or less in giving instruction, either in their offices or in connection with educational institutions, and hundreds of persons have thus received practical lessons. The Christian Brothers and other orders have long been noted for the thorough instruction in the art imparted by them in Catholic schools.

Attention is particularly called to the great variety of institutions which now give shorthand courses in connection with other branches, and to the number of public schools, especially in evening classes, which afford instruction in this specialty. The art is now generally included in the curriculum of studies embraced in evening classes of the Young Men's Christian Associations.

Probably not more than one person out of a hundred who take up the study of shorthand is physically and mentally qualified to make a verbatim reporter. The number of those who are able to fit themselves as office shorthand clerks is however solely dependent upon qualifications entirely apart from a knowledge of swift writing. In other words, any intelligent person with a good general education is capable of learning enough of the art to make a successful business amanuensis.

In very few schools is there an established standard for graduation, and even in such as maintain a definite degree of proficiency this requirement varies greatly. It will thus be seen that the figures given in the column showing "time required for completion of course" may refer to a variable standard of proficiency or may simply mean that, within the time stated, *some* students have been able to secure employment as stenographic clerks.

The growth of shorthand instruction, following its rapidly extended use, has been perhaps the greatest educational movement of recent times. The business men of the United States so quickly and so generally availed themselves of the benefits of the art that there was not a sufficient number of properly qualified amanuenses to meet the demand. This condition of affairs (obviously one of short duration) is passing away, and the "professor" who had learned all he knew of shorthand in six weeks or less, but who was benefited by the unprecedented demand for stenographers, does not now find it so easy to decoy ignorant persons into the study of an art for which only those naturally intelligent and having a good English education are fitted, even in the lowest grades of business amanuenses. It must be confessed that the shorthand teacher who keeps "one lesson ahead of his class," references to whom have been repeatedly printed, has not had his only existence in editorial fancy. This indiscriminate instruction has brought discredit

upon shorthand writers generally, for it has filled many portions of our country with so-called stenographers having a partial knowledge of the art and able to move the carriage of a typewriter, but who are destitute of many of the essential qualifications of amanuenses. The salaries regarded as satisfactory by these "three months' graduates" are, it is true, but little higher than those paid office and errand boys, but business men soon become weary of revising their work and correcting their errors, and they are set adrift to seek new victims of their incompetency. The Chicago Herald says, editorially, "The country is overrun with a plague of inaccurate stenographers, whose errors lead merchants into trouble and entangle courts in conflicting testimony. Check must be put upon the army of incompetents."

The "Shorthand Writer" for May, 1891, says, in an editorial commenting upon the above, "The evil has become so great that some action is forced upon us."

The editor of "The Phonographic Magazine," in November, 1890, writes as follows:

The impression was formerly almost universal, but is now rapidly fading, that in order to secure and hold a good position as a shorthand clerk one needs but to learn to write rapidly. At no time has this single qualification been sufficient to make a successful stenographer, and its insufficiency was never more apparent than to-day. Some years ago, indeed, a very modest mental furniture might suffice to bolster up the uneducated shorthand writer who could take dictations, but nowadays the increased pressure for the best places and the enlightened judgment of employers are such as to demand of all applicants at least *four* fundamental accomplishments, which must be acquired by hard study and which do not "come by nature."

These qualifications are specified as (1) correct spelling, (2) correct grammar, (3) good business form, and (4) a rapid and legible longhand or skill in the use of the typewriter.

A teacher, in sending in his report of instruction, writes:

Equipped with a knowledge of composition, punctuation, etc., the student of shorthand enters the field of phonographic preferment as assured of ultimate success as was David of old. Lacking these important needfuls, dark indeed is his way, slow his progress, and, unless endowed with an indomitable will, in the end he finds only disappointment and distress. I fancy that statistics of the art of shorthand would be incomplete without some reference to the imposition which is practiced upon the unwary in the form of "systems mastered in one month" and "reporting skill in three months." The advertisers of such boons (heaven save the mark) can not be too severely handled.

The following statement in The Phonographic Magazine for March, 1891, is particularly pertinent:

What sane man would think of offering his services as a plumber, a carpenter, or a barber after an apprenticeship of three months? What sensible young woman would presume to call herself a dressmaker or a cook within that quarter of a year in which she makes her first acquaintance with the work of such an occupation? Ought it to seem plausible to the uninitiated that the mental and technical requisites of the shorthand writer in business as an amanuensis are so much more limited and meager than those of practitioners of the trades we have named as to justify the idea that time is a hardly appreciable element in his preparation for his work? Does it not seem reasonable to suppose that at least as much time must be given to the

preparatory study and practice of shorthand, in order to make a fairly good amanuensis, as must be given to the preparatory study and practice of horseshoeing in order to make a fairly good farrier? Is the work of the amanuensis so immeasurably inferior to that of the barber that it can be mastered with a smaller expenditure of mental power and technical drill as measured by time? If anyone thinks so, we would earnestly entreat him to be true to his higher ideal and try to become a good barber or cook (for many of which there is still room in the world), and to manfully resist the temptation to sink into the position of a mere three-months stenographer.

That all teachers of shorthand should give preliminary examinations to applicants before undertaking instruction is beyond question, yet an inquiry as to the number of schools providing such tests has resulted in obtaining information of very few and these generally in institutions offering free instruction.

The Free School in Stenography for Women of the Cooper Union, New York, has held such examinations for several years. Applicants must be at least 18 and not over 35 years of age.

Mr. L. C. L. Jordan, assistant secretary, writes:

We have no regular examination papers for admission to the class in stenography.

I examine about forty applicants at once. They are first required to write their name, age, and address at the head of the page. Then they are asked to write a letter of application for a position as stenographer. After this I dictate slowly a few well-written editorials from some first-class newspaper. A page of foolscap paper of original matter on some given subject or subjects completes the examination. Simple as the above is, it is astonishing that not more than one out of six of the applicants, who for the most part are graduates or students in the higher grades of the public schools, can give a sufficiently good account of themselves to enable them to pass. The penmanship is a matter of great importance, as well as the ease and facility with which applicants handle a pen or pencil.

Examinations for admission to the shorthand class of the Young Women's Christian Association, New York, are conducted in accordance with suggestions of Mrs. E. B. Burnz, as follows:

Seat thirty or more applicants, each at a separate desk, in the large room, with three large sheets of paper and pen and ink before each, no pencils or rubbers being allowed. Forbid all communication with each other during the examination. The examiner, to insure this, must not leave the room. As a test of spelling, dictate sentences like the following, to be written on one sheet. Tell them to begin each sentence with a capital and place a period at the close:

Sulphur is highly inflammable. I gave a nickel for the fossil.

Glass is neither ductile nor malleable, unless heated.

He leaped from the precipice into the abyss.

I have catarrh and can not sing to the guitar.

At the siege of Paris the military maneuvers were admirable.

I will give one specimen of her ridiculous suspicions.

The balance of the stationery was damaged.

It is possible that Her Majesty will confer the privilege.

Remove this collection of miscellaneous rubbish.

A recipe is not a receipt.

Madam Joy possesses a brilliant intellect.

Such an exhibition is without a parallel.

The scent of that bouquet makes me sneeze.

My conscience pursued me for the falsehood.

After this, say: "Now, please take another sheet of paper and write a letter which I shall dictate to you. Take it down exactly as I say the words. The number of the house, street, city, State, and the date are to be put in their proper places. Write slowly and carefully, because you can have but one sheet of paper. When I have done dictating conclude the letter in your usual way and sign your own name."

No. 7 E. 15TH STREET, NEW YORK,

September 11, 1890.

My DEAR MRS. FISH: Being informed that you have decided to remove into the country, I shall feel under obligation if you will inform me as to the interior of the house you occupy at 93 Madison avenue. How many rooms are there on each of the three floors? Are the parlor and kitchen of suitable size for a family of eight persons? Are the washtubs movable or stationary? Does the dumb-waiter work smoothly, and are there facilities for thoroughly ventilating every apartment? Is the dining room sufficiently large to admit of a party of, say, twenty guests being comfortably seated? How many will the dormitories accommodate, should you think, on an emergency? A complete and speedy reply will be appreciated by,

Yours truly,

After each has signed her letter, request them to take the remaining sheet, and write a reply to each question asked in the foregoing letter, in the order in which it was stated. They may be permitted to refer to the first letter so as to reply serially. Tell them to begin by imagining that each girl is "Mrs. Fish," and therefore putting the Madison avenue residence at the beginning of the letter. Then each addresses herself and replies to the questions as she chooses, signing Mrs. Fish's name at the end.

An exercise like this will test the applicant's knowledge of spelling, capitalizing, punctuation, grammar, use of words, and facility of imagination; the latter being really an ability to adapt oneself to surroundings, and this is very important in business life.

When the sentences and the first and second letter have been written, let each girl pin her three papers together, and give them up at once. Let no one take anything written away. It is best to have large-sized sheets, so as to hold all that is dictated, as some persons write a large hand or spread their writing. But I think it is best to limit the girls to one sheet for each of the three exercises, and allow no second beginning to anyone. A fairer estimate of the comparative ability of each individual applicant can thus be made.

Of course various sentences containing words liable to be misspelled and letters to be answered can be arranged, and the examiner should have several on hand for different occasions. My idea in presenting these suggestions is to give a fair but thorough test of the education and ability of each applicant, with the least expenditure of time and labor on the part of the examiner. A short editorial from some leading paper is also given as a dictation.

The marked success which has attended the efforts of Mr. W. L. Mason, the teacher of the Female Stenographic Class of the General Society of Mechanics and Tradesmen of New York, is no doubt largely due to the carefully prepared preliminary examinations which have weeded out those unfitted to practice the art. "Great stress," Mr. Mason states, "is laid on educational qualifications for the study of shorthand and typewriting in our school, and each applicant is required to pass a moderately difficult examination in the simple English branches, such as spelling, grammar, punctuation, and composition."

A copy of an examination paper prepared by Mr. Mason is here presented.

WRITTEN EXAMINATION.

Write your name plainly at the top of each new page.

Begin each new subject on a new page.

Number the pages carefully, write only on one side, and attach the sheets together with a pin.

1. Write correctly, with regard to spelling, punctuation and grammar, the following letter.

Mr Henry m. Walker

Notar Republic

New York

Dear sir I just received your favored from the 26th of August. And in answer of the containing I just will tell you the strange story you like to know Some years ago arrived here a english engineer whom rode about in the mountains without never to have found the place he looked for. He left a plan supposed to be false. And turned just upward down We took the plan and went too the place but without to have round a large stone mentioned therein i now write to you as the representant of said engineer and think my word is sufficient to be trusted on. If Mr. Dennison will like to have information please direct himself to the Rev. Mr. Grimes, in case you should like to have information on my account you can get them in New York City address me care of the American counsel I remain yours respectively

2. Correct the following sentences:

Your meaning is not elicited, please explain it further.

The society sent an allegation to the convention.

The young lady did not anticipate in the dance.

We had a strawberry vestibule in our church.

The man tried to distort money from his neighbor.

3. Define the following words, by sentences or otherwise:

Uncertain, Enormous, Difficult, Represent, Appear, Establish, Assure, Employ, Command, Argument.

4. Put the following into proper form grammatically:

He was the man who I gave the check to.

Dear Sir: I can be regular in attendance unless sickness prevents my staying away.

The Book of Psalms were written by David.

We are your's most truly.

Her ain't calling we, us don't belong to she.

The coaches will leave headquarters at 8.30 A. M. whence they will go to the hall and partake of a bountiful dinner.

I saw a town sailing up the river.

They looked up at the seventh floor, and thought of clothing being left to the flames that they could ill afford to lose.

He brought the books to Annie and I.

Wanted, to take the agency of our safes, a man,—size 28x18x18 inches; weight 500 pounds; other sizes in proportion.

5. Read over carefully the following paragraphs and give, in your own words, at the end of each, the required explanation.

(a) A young man desired to play a trick on another man. He proposed a race on horseback between his friend and himself, and for the purpose provided two horses, one in good condition and the other very old and lame. The first one he himself intended to ride, and so win the race, but in some manner, just at starting, the horses, which looked alike, became mixed, and the result was that the man who had planned the trick was beaten. It was said that he was "hoist with his own petard." What was meant?

(b) A girl was promised by a friend a present on her birthday. She expected a gold watch, but receiving instead a pair of earrings, expressed dissatisfaction with the gift, whereupon the friend demanded it back, saying, "You should not look a gift horse in the mouth." What was meant?

(c) A young man went into business for himself, but after remaining at one place for a short time, sold out and went to another town. This he did several times, and upon complaining to a friend of his want of success, was told, "A rolling stone gathers no moss." What was meant?

6. Fill the blank spaces in the following, with words which will, grammatically, make the sentences correct and complete:

A years ago lived in Atchison a family, the of which was a man very comfortable circumstances, whose cozy cottage, one the best of the town, sheltered a wife, a son, and a daughter, the a beautiful girl just budding womanhood. The boy, bright in studies and upright in his habits, looked upon as of the promising young of Atchison. One day the father sick, and after a very brief illness. When it time to up the estate it discovered that, of leaving his in comfortable circumstances, he had them almost penniless. The homestead a hundred in the bank was all that be found. What he had with the he had earned no one could , but with stout the bereaved ones about earning their in the world.

7. Write a letter of application to the instructor, for admission to the female class, embodying the following particulars:

Your name, age, and residence; whether now employed, and, if so, where and for how long you have held your present position; how much schooling you have had; if you have graduated from any school, and, if so, which one and when. Also whether you have any knowledge of shorthand, and, if so, which system; if you desire to study both shorthand and typewriting; if you have any practical acquaintance with the Remington or any other typewriter; if you intend using your shorthand or typewriting as a means of earning your livelihood; if you can be regular and punctual in attendance, and if you can give at least two hours each day to the study of the lesson; together with any other particulars you may desire to state.

ORAL EXAMINATION.

8. Listen carefully to the following letter, take pains to arrange it properly, and give particular care to the spelling of all the words contained in it:

NEW YORK, *August 14, 1891.*

CHARLES T. BROWN, Esq.,

25 Broad Street, City:

DEAR SIR: *Agreeably* to your request, I have looked into the matter submitted to me and beg to report as follows: It was my *privilege* to visit the *Treasury* and observe there the *maintenance* of *discipline*. I found myself in somewhat of a *dilemma*, for I knew that my *judgment* was not by any means *infallible*, though I had the *audacity* to believe it to be of some value. I found the building situated upon a *terrace* in a pretty part of *Minneapolis*, and soon *perceived* from its appearance that it was a *receptacle* for money and valuables. My work, however, proved somewhat *monotonous*, the more so as I had labored under the *fallacy* that it would have considerable variety. I found at the entrance a doorkeeper of *military* bearing who *endeavored* to oppose an *impassable* barrier between me and the interior, but, after being *harassed* for some time by this individual, I experienced a *malicious* delight in taking *vengeance* upon him by finally entering after I had *besieged* the place for more than an hour. Once within, I *received* a cordial welcome and gleaned many facts, from which, upon my return to *Manhattan* Island, I shall be able to make up for you a condensed *summary*, which I trust will meet all requirements.

In the meantime, I beg to remain,

Very truly yours,

9. Listen carefully to the following sentences and write each one, from memory, as soon as it is spoken:

Hoping to receive your order, I remain.

Dear Sir: We are favored with your inquiry for prices.

Agreement made this 23d day of May, 1889.

Sworn to before me this 21st day of August, 1891.

On this 14th day of September before me personally came Henry Peck.

The statement made by Mr. Jordan, that "not more than one out of six of the applicants, who for the most part are graduates or students in the higher grades of the public schools," can pass the very simple and reasonable examination in the English language required before instruction in shorthand will be given them at the Cooper Union, New York, will be noted with surprise by all except those who are familiar with the facts and with the general knowledge of language possessed by graduates of our public schools. It is doubtful whether there is one school in the United States out of a hundred supported by tuition fees which requires even a nominal entrance examination or any preliminary qualification for the study of the art. There is no reason to believe that the conditions in New York are peculiar. Unless they are peculiar the conclusion is obvious that more than 80 per cent of those who have sought instruction in the United States are incapable of making a proper use of the art when learned, or of becoming creditable office amanuenses. It is certainly well within bounds to say that 50 per cent of those receiving shorthand instruction to-day in schools and classes have not a sufficient knowledge of the ordinary English branches to enable them to successfully practice the art as business correspondents.

Justice to the applicant for shorthand instruction requires that he be examined, and if found deficient in the qualifications necessary for a successful shorthand clerk that he be spared the loss of time and money consequent upon obtaining a knowledge of an art which *alone* is of no pecuniary benefit to its possessor.

SCHOOLS INTRODUCING SHORTHAND IN 1890-'91.

The rapid increase of shorthand instruction is well illustrated in the following table, showing schools and classes into which the art was introduced during the scholastic year of 1890-'91:

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
ALABAMA.											
1	Greenville	Private instruction ..	Robert Pentland ..	1	5						5
2	Montgomery....	St. Mary of Loretto School.	Sister Prudentia..	1		13					13
ARKANSAS.											
3	Arkadelphia....	Arkadelphia Methodist College.	Ruth Johnson	1	9	3					12
4	do	Ouachita Baptist College.	Miss Lucy M. Yager.	1			6	12			18
5	Conway	Hendrix College	Lenoir Hunt.....	1	8	1	1				10
6	Rally Hill	Rally Hill Academy .	Albert Alleman...	1	12	3					15
CALIFORNIA.											
7	Blocksburg	Private instruction..	Geo. Perry.....	1			1	5			6
8	Oakland	do	Miss K. C. Pfluger	1	2	10					12
8½	Orange	Orange County Collegiate Institute.	E. R. Andrews....	1	2	1					3
9	Redding	Private instruction..	M. E. Rigby.....	1	15	17				1	33
10	San Jose	Bowen's Business College.	Miss Kate Paxton.	1	2	8		2			12
11	do	Willow Glen School of Shorthand, Willow Glen Day School.	H. F. Barnette	1			9	3	3	2	17
12	Santa Clara.....	Santa Clara College .	Thomas Heffron and H. O'Donnell.	2	23						23
COLORADO.											
13	Denver	Jarvis Hall Military Academy.	G. M. P. Prldham, A. B.	1					5		5
CONNECTICUT.											
14	Ansonia	Private instruction..	Chas. E. Pickett...	1			20	11			31
15	do	do	F. J. Pope.....	1		11	6				17
16	do	Young Men's Christian Association.	Norman Knight ..	2	19	2				1	22
17	Bridgeport	Park Avenue Institute.	Will P. Hopkins..	1	6						6
18	do	Private instruction..	do	1	7						7
19	Meriden	do	Misses Anna L. Brand and Agnes J. Deane.	2	4	6				2	12
20	do	Curtis School of Shorthand and Typewriting.	B. S. Curtis	1	1	5	7	4		1	18
21	Norwich.....	Norwich Free Academy.	Helen Marshall Lathrop.	1	10	6					16
22	West Winsted..	Private instruction..	James P. Glynn...	1			5	1			6
DISTRICT OF COLUMBIA.											
22½	Washington....	High School (colored)	Mary Wall.....	2	40	20					60
23	do	A. C. Starin's Business College.	A. C. Starin.....	2	12	22	13	8			55

was introduced during the scholastic year ended June 30, 1891.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Mar. 1, 1891	5	Isaac Pitman's phonography.	.....	3 months..	12	\$1 per week.....	1
Nov. 1, 1890	13	Benn Pitman's phonography.	Remington .....	.....	40	\$10 per quarter ...	2
Sept. 3, 1890	18	Cross's shorthand.	Yost (1)	3 to 4 mos.	38	\$5 per month	3
Sept. 1890	18	Benn Pitman's phonography.	Remington (3) ...	1 year.....	40	\$50 per year	4
Oct., 1890	10	Benn Pitman's and Graham's phonography.	Caligraph (2)	6 to 9 mos.	24 to 36	\$4 per month.....	5
Oct., 1890	15	Isaac Pitman's phonography, modified.	.....	6 months..	36	\$1 per month.....	6
.....	6	Benn Pitman's phonography.	Hammond .....	.....	.....	.....	7
July 29, 1890	12	Isaac Pitman's and Munson's phonography.	Remington	6 to 8 mos. ....	.....	\$8 per month, or \$40 for six months.	8
Sept., 1890	3	McKee's shorthand.	Caligraph (1)	6 months..	40	\$15 per term	8½
.....do	33	Benn Pitman's phonography.	Caligraph.....	6 months..	.....	\$8 per month.....	9
Sept. 15, 1890	12	Cross' shorthand	Remington (1), Caligraph (2).	.....	50	\$50 for six months.	10
Jan., 1891	12	Isaac Pitman's phonography.	Remington and Yost.	6 months..	40	\$10 per month	11
Aug. 1, 1890	23	Benn Pitman's phonography.	Remington	6 months..	42	\$5 per month.....	12
Sept. 4, 1890	5	Benn Pitman's phonography.	Remington	2 years.....	40	\$20.....	13
.....	31	Munson's phonography.	Remington	1 year.....	.....	50 cents per lesson.	14
Feb. 1, 1891	11	Benn Pitman's phonography.	.....	6 months..	.....	\$5 for 20 lessons ..	15
Nov., 1890	22	Graham's phonography.	None	6 to 12 mos. ....	.....	(Membership in Association.)	16
Nov. 4, 1890	19	do	Caligraph.....	.....	36	\$10 per quarter, shorthand only.	17
Oct., 1890	7	do	do .....	.....	.....	60 cents per lesson.	18
.....do	10	Munson's phonography.	Remington	6 months..	52	\$20 for 3 months, or \$8 per month.	19
Dec. 12, 1890	18	Graham's phonography.	Caligraph.....	6 mos. day; 1 yr. evenings.	52	\$60.....	20
Oct. 1, 1890	16	Allen's phonography.	Remington	20 weeks..	.....	.....	21
Jan. 5, 1891	6	Munson's phonography.	Remington (3) ...	1 year.....	40	\$25.....	22
Jan. 1, 1891	60	Benn Pitman's phonography.	Remington (8) ...	2 years.....	36	Free	22½
Nov. 1, 1890	55	Benn Pitman's phonography.	Caligraph and Remington.	4 to 6 mos.	40	\$10 for 3 months ..	23

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1890	.....	Benn Pitman's phonography.	Caligraph.....	.....	.....	\$2 and \$3 per month	24
.....do.....	300	Benn Pitman's phonography, modified.	Remington (5), Caligraph (5), Hammond (2), Smith (1).	2 years ...	36	None	25
Aug. 1, 1890	10	Munson's phonography and Perin's shorthand.	Caligraph.....	2 to 3 mos.	51	\$40 for course.....	26
Sept. 1, 1890	4	Benn Pitman's phonography.	Remington (1) ...	4 to 5 mos.	40	\$30.....	27
.....	10	Gilbert's phonography.	Remington	4 months ..	52	\$15 per month	28
Mar. 20, 1891	20	Cross's shorthand.	.....	10 lessons. ....	.....	\$10.....	29
Jan. 12, 1891	11	Benn Pitman's phonography.	Remington (1), Caligraph (1).	3 to 4 mos. ....	.....	\$10 a month, 2 lessons a day; \$5 a month, 1 lesson a day.	30
Sept. 1, 1890	12	do.....	.....	3 to 4 mos.	36	Free to pupils of public school.	31
Dec., 1890	11	Pitman's and Graham's phonography.	Remington (1) ...	4 months ..	43	\$25.....	32
Jan. 10, 1891	48	Cross's shorthand.	.....	.....	.....	\$10.....	33
Jan. 1891	2	Sloan-Duployan shorthand.	Caligraph.....	2 terms ...	39	\$12 per term	34
Sept. 1, 1890	20	Benn Pitman's phonography.	do.....	6 months ..	40	\$20 for 12 weeks ..	35
1890.....	.....	Sloan-Duployan shorthand.	.....	3 to 4 mos. ....	.....	\$40.....	36
Sept. 30, 1890	23	Cross's shorthand.	.....	10 lessons. ....	.....	\$10.....	37
Nov. 1, 1890	15	do.....	.....	do .....	.....	\$10.....	38
Mar. 3, 1891	12	do.....	.....	do .....	.....	\$10.....	39
Oct., 1890	10	Benn Pitman's phonography.	Remington	5 months ..	.....	\$25 for full course.	40
Sept., 1890	6	Cross's shorthand.	do.....	3 months ..	38	\$10 per term	41
.....do.....	55	do.....	.....	1 year.....	.....	Free.....	42
Sept. 8, 1890	8	Pencil or machine system.	Remington (2), Smith (1).	.....	40	\$8 for 20 lessons in class.	43
Oct., 1890	5	Cross's shorthand.	Remington (1) ...	10 to 12 weeks.	.....	\$10 per term	44
Sept. 1, 1890	7	Benn Pitman's phonography.	Remington (3) ...	6 months ..	36	\$22 for 4 months; \$30 for 6 months.	45
Jan. 1, 1891	4	Isaac Pitman's phonography.	.....	3 months ..	.....	50 cents for each private lesson.	46
Sept. 18, 1890	3	Cross's shorthand.	Remington (1) ..	50 lessons. ....	.....	\$40 for course.....	47
Sept., 1890	27	do.....	Remington	20 weeks..	46	\$30 for shorthand, \$10 for typewriting.	48
Feb. 15, 1891	17	do.....	.....	10 lessons. ....	.....	\$10.....	49

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
INDIANA.											
50	Columbus	Private instruction..	Maggie Dunlap...	1	.....	.....	4	9	.....	.....	13
51	Indianapolis.....	Young Men's Christian Association.	H. E. Layton.....	1	.....	.....	13	.....	.....	.....	13
52	Muncie	Howard's Business College.	J. W. Howard	2	45	15	.....	.....	.....	.....	60
53	Petersburg	Private instruction..	Miss Lillian Murfitt.	1	1	7	4	.....	.....	.....	12
54	Rensselaer.....	St. Joseph Indian Normal School.	Andrew Gietl	1	15	.....	.....	.....	.....	.....	15
55	Richmond	St. Mary's Academy.	Sisters of Providence.	2	.....	20	.....	.....	.....	.....	20
56	Vincennes	St. Rose's Academy..	...do	1	.....	35	.....	.....	.....	.....	35
57	Winchester.....	Private instruction..	C. M. Watts	1	.....	2	4	1	.....	.....	7
IOWA.											
58	College Springs.	Amity Commercial College of Amity College.	A. Ogier	1	3	6	.....	.....	.....	.....	9
59	Corning	Corning Academy ...	Ira S. Condit.....	1	6	4	.....	.....	.....	.....	10
60	Leon.....	Leon High School, private instruction.	Mrs. Lenna F. Huston.	1	2	1	.....	.....	.....	.....	3
61	Red Oak.....	Red Oak Business College.	Mrs. H. C. Carver.	1	.....	.....	.....	.....	.....	.....	9
62	Sioux City.....	College of Commerce, University of the Northwest.	Julia M. Fay.....	2	12	48	.....	.....	.....	.....	60
63	Woodward	Private instruction..	E. Rowley	1	.....	.....	6	2	.....	.....	8
KANSAS.											
64	Baldwin	Bond's School of Shorthand and Typewriting, Baker University.	Mabel Brockett...	1	2	6	.....	.....	1	2	11
65	Fort Scott	Bryant's College of Music and Literature.	D. De F. Bryant...	1	4	11	.....	.....	.....	.....	15
66	Gove City	Public school, Thirty-fifth District.	Albert J. Boyce...	1	3	1	.....	.....	.....	.....	4
67	Howard	Private instruction..	C. L. McKesson..	1	2	6	4	3	1	.....	16
68	Junction City ..	...do	Geo. R. Faringly..	1	.....	1	4	.....	.....	.....	5
69	Manhattan	...do	H. E. Moore.....	1	1	.....	.....	.....	.....	.....	1
70	Morrill	Morrill College	Belle M. Cleveland	1	2	1	.....	.....	1	.....	4
71	Oberlin	Private instruction..	Joseph H. Young.	1	5	4	.....	.....	1	.....	10
72	Webster	Webster School of Shorthand.	J. F. Mullaney	1	3	1	11	1	.....	.....	16
KENTUCKY.											
73	Cecilia.....	Cecilian College	F. E. Blalock.....	1	22	3	.....	.....	1	1	27
74	Louisville	Weaver's Business College.	Clarence M. Gordon.	1	.....	11	2	2	.....	.....	15

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
May 1, 1890	13	Graham's phonography.	Remington and Caligraph.	1 year	36	\$10 per term of 20 lessons.	50
Oct., 1890	13	Longley's phonography.	Remington (1), Caligraph (1).	.....	.....	Membership in association.	51
Apr. 21, 1890	100	do	Caligraph and Remington.	6 to 12 mos	52	.....	52
Feb. 28, 1891	12	Benn Pitman's phonography.	Remington (1)...	125 lessons	....	50 cents per lesson.	53
Sept., 1890	15	Gabelsberger-Richter stenography.	.....	2 terms ...	40	.....	54
.....do	20	Cross's and Pernin's shorthand.	Remington .....	.....	44	No extra charge ..	55
.....do	35	Pernin's shorthand.	None	1 year	40	50 cents per hour .	56
Dec. 1, 1890	7	Benn Pitman's phonography.	Caligraph (1) ....	.....	.....	50 cents per lesson.	57
Sept. 3, 1890	9	Graham's phonography.	Remington (1) ...	5 months .	39	\$1 per week.....	58
Jan. 6, 1891	10	Isaac Pitman's phonography.	Caligraph	6 months .	36	\$5 for 3 months shorthand; \$.0 for 3 months, with business branches.	59
Mar., 1891	3	Benn Pitman's phonography.	Caligraph (1) ....	.....	.....	.....	60
Sept. 1, 1890	9	do	Remington and Caligraph.	6 months .	51	\$30.....	61
.....do	60	Graham's phonography.	Remington (6), Caligraph (1).	4 to 9 mos. ....	.....	\$15 for 12 weeks ..	62
Nov., 1890	8	Benn Pitman's phonography.	.....	10 months. ....	.....	\$10 to \$20	63
Sept. 8, 1890	8	Graham's phonography.	Remington	9 months..	40	\$50.....	64
Sept. 1, 1890	15	Munson's phonography.	Remington (1) ...	4 to 6 mos.	40	\$30 for shorthand for course; \$10 for typewriting for course.	65
Dec. 18, 1890	4	Longley's phonography.	.....	.....	.....	Free.....	66
Mar. 1, 1891	8	Benn Pitman's phonography.	Caligraph (1)	6 months..	52	\$24 for 6 months' course.	67
.....do	5	Sloan-Duployan shorthand.	National (1)	3 months .	12	\$30.....	68
Sept. 1, 1890	1	Benn Pitman's phonography.	Yost (1)	6 months .	.....	Free.....	69
Mar. 9, 1891	4	Cross's shorthand	Remington (1)...	4 months .	.....	\$35 for 4 months ..	70
Jan. 1, 1891	9	Benn Pitman's phonography.	Caligraph	4 to 6 mos. ....	.....	\$25 for 50 lessons .	71
Mar., 1891	16	do	None	10 weeks..	.....	\$4 for term of 10 weeks with books.	72
Jan. 1, 1891	27	Cross's shorthand	Hammond (2), Remington (1).	5 to 6 mos.	40	\$10.....	73
Feb. 2, 1891	20	Munson's phonography, modified.	Caligraph (4)	3 to 6 mos.	52	\$40 for first 3 months, \$10 per month thereafter.	74

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
LOUISIANA.											
75	New Orleans.....	Leland University...	W. H. Lewis.....	1	6	9					15
76	do	St. Isidore's College..	Rev. M. Lee.....	1							20
MAINE.											
77	Augusta.....	Private instruction .	Frank A. Small ..	1	2	1					3
78	Mechanic Falls. ....do		Harry Fielding...	1			18	1			19
79	Portland	Shaw's Business College.	Isabel S. Spear ...	1	11	9				1	21
MARYLAND.											
80	Baltimore	St. Vincent's School .	Sister Alrosia	2							35
81	Damascus	Private instruction ..	R. F. Day	1	2		1	1			4
MASSACHUSETTS.											
82	Ashburnham ...	Cushing Academy ...	Cora E. Reynolds .	1	6	7					13
83	Everett.....	Courtland St. Chapel.	W. F. Warren	1				7			7
84	Gilbertville.....	Private instruction ..	E. M. Marsh	1			4	4			8
85	Gloucester.....	Gloucester High School.	Miss Maria B. Smith.	2	30	34					64
86	Lawrence.....	Young Men's Christian Association.	Walter Fox.....	1			16				16
87	Lowell.....	Lowell Evening High School.	Miss Blanche Hard	1			*25	*35			*60
88	Pittsfield	Young Men's Christian Association.	Miss Angie E. Bardin.	1			5				5
89	Warren.....	Private instruction ..	Fred E. Cook	1			2	1			3
90	Worcester.....	do	F. R. Heath.....	1			7		2	1	10
MICHIGAN.											
91	Detroit	Detroit College	John Tice	2	210						210
92	do	National Shorthand Institute.	T. J. Allen	1	6	17	4	15	9	7	58
93	Escanaba.....	Private instruction ..	E. C. Cayo	1					5	1	6
94	Ishpeming.....	Ishpeming University of Business.	May Ella Hodge ..	1		2	2				4
95	Kalamazoo.....	Teller's School of Stenography, Teller's Business College.	Mrs. W. P. Teller.	2	4	37	1	6			48
96	Lansing	Lansing High School	O. N. Rice.....	1	5	3					8
97	Mt. Pleasant....	Mt. Pleasant Business College.	Luella M. Milliken	2	3	2	2	1			8
98	Ontonagon.....	Presbyterian Church, private instruction,	Cyril Ross.....	1			3	1			4
99	Owosso	Owosso Shorthand School.	Fred Edwards	1			16	8			24
100	Ypsilanti.....	St. John's Academy .	Sisters of Providence.	2	4	25					29

was introduced during the scholastic year ended June 30, 1891--Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Jan. 26, 1891	15	Pitman's phonography.	Caligraph.....	8 months .	35	\$2 per month.....	75
Sept. 1, 1890	20	Benn Pitman's phonography.	Remington	2 years ...	40	\$20.....	76
Jan., 1891	3	Benn Pitman's phonography.	Remington (1) ...	.....	.....	50 cents per lesson.	77
Jan. 12, 1891	19	Isaac Pitman's phonography.	None .....	.....	.....	.....	78
Sept. 16, 1890	20	Benn Pitman's phonography.	Remington	5 months .	52	.....	79
Sept., 1890	35	Pernin's shorthand.	Remington (1) ...	6 months .	40	\$3 per month.....	80
Nov., 1890	4	do .....	.....	4 to 6 mos. ....	.....	50 cents per lesson.	81
Jan. 1, 1891	13	Graham's phonography.	Remington (2) ...	.....	39	\$15.....	82
Oct., 1890	7	Munson's phonography.	.....	5 months .	.....	Free	83
.....	8	do .....	.....	.....	.....	.....do	84
Sept. 1, 1890	64	Chandler's tachygraphy.	Remington (6) ...	1 year	40	do	85
Mar. 2, 1891	16	Isaac Pitman's phonography.	.....	36 weeks..	.....	.....do	86
Oct., 1890	*60	do	Remington (6) ...	.....	20	do	87
Jan., 1891	5	Benn Pitman's phonography.	.....	.....	.....	.....	88
Jan. 15, 1891	3	Isaac Pitman's phonography.	None	About 3 months.	.....	\$10 for 30 lessons..	89
Oct. 1, 1890	10	McKee's shorthand.	.....	20 to 30 lessons.	.....	50 cents per lesson.	90
Sept. 1, 1890	210	Pernin's shorthand.	Remington (1), Hammond (1), Caligraph (1).	1 year	40	.....	91
Sept. 18, 1890	42	Allen's shorthand and Benn Pitman's phonography.	Remington (1), Caligraph (1).	3 to 6 mos.	52	\$40.....	92
.....	.....	Benn Pitman's phonography.	.....	.....	.....	\$15.....	93
Feb. 2, 1891	4	Cross's shorthand.	Caligraph.....	6 months .	52	\$50.....	94
July 7, 1890	48	Munson's and Benn Pitman's phonography and Pernin's shorthand.	Yost (2), Smith (1), Caligraph (1), Remington (1).	5 months .	40	\$35 for four months and \$5 for each succeeding month.	95
May 1, 1891	9	Benn Pitman's phonography.	.....	.....	.....	.....	96
Sept. 29, 1890	8	Cross's shorthand.	Smith and Remington.	6 to 9 mos.	50	\$40.....	97
Mar. 17, 1891	4	Isaac Pitman's phonography.	.....	.....	.....	\$1.50 for ten lessons	98
Jan. 10, 1891	24	Pernin's shorthand.	Smith (1), Crandall (1).	10 to 20 weeks.	36	\$20 for 12 weeks ..	99
Sept. 5, 1890	29	Cross's shorthand.	Caligraph (1) .....	.....	40	Free	100

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
MINNESOTA.											
101	Duluth	Yale school	Mrs. M. C. Wise ..	1							7
102	Little Falls	Little Falls Business College.	H. L. Casey	1							5
103	Minneapolis	Christian Brothers' School.	Rev. Bro. John....	2	20						20
104	St. Paul	Metropolitan Business School.	Miss Mamie Gill..	1	25	20	16	9			70
MISSISSIPPI.											
105	Aberdeen	Public schools	Miss Willie J. Word.	1	14	20					34
106	Meridian	Private instruction..	Miss H. Julia Smith.	1	2	8	1	1			12
107	Poplar Springs	do	H. W. Lantrip	1					4	1	5
MISSOURI.											
108	Appleton City..	Appleton City Academy.	Emil Theilmann ..	1	4	2					7
109	Carthage	Private instruction..	Miss Ella Harrison.	1	1	4					5
110	Chillicothe	Chillicothe Shorthand College, Chillicothe Normal School and Business Institute.	E. F. Fielding.....	1	96	22			3		121
111	Clarksburg	Hooper Institute	Miss Lily Hooper.	1	19	1					20
112	Harris.....	Harris College School of Shorthand, Harris College.	Miss Belle Johnson.	1	27	20					47
113	Kansas City....	Cathedral Commercial School.	Brother Justus ...	4	30						30
114	do	Metropolitan School of Shorthand and Typewriting.	E. H. Rydall.....	1							
115	Mechanicsville	Howell Institute.....	R. E. Gamble	1							
116	St. Louis.....	Private instruction..	Authur J. Briggs	1			2				2
117	Sprague	Bryant & Smith College.	Walker Smith	1	1	5			7	5	18
118	Trenton	Avalon College	W. A. Rickenbrode.	1	6	5	5				16
119	Warrenton	Central Wesleyan College.	L. P. Frohardt	1	14						14
MONTANA.											
120	Twin Bridges...	State Normal School.	Mrs. L. V. Riley...	1	8	2					10
NEBRASKA.											
121	Harvard.....	Harvard Shorthand School.	A. E. Livingston..	1	3	1	3	1			8
122	Lincoln.....	Central School of Shorthand.	Bert E. Betts	2		12	3	2			17
123	Omaha.....	Holy Family School	Sister of Mercy...	3		50					50
124	Wahoo	Luther Academy; private instruction.	Oscar Sellberg	1			9				9
NEW HAMPSHIRE.											
125	Dover	Young Men's Christian Association.	A. O. Hall.....	1			16	14	4	4	38

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Oct. 13, 1890	7	Graham's and Pitman's phonography.	Remington	6 to 9 mos.		\$40 for 3 months ..	101
Dec. 8, 1890	5	Benn Pitman's phonography.	Remington (1), Caligraph (1).	6 to 8 mos.		\$50 for 6 months ..	102
Sept., 1890	20	do	do	do	40	Free	103
Nov. 1, 1890	70	Longley's phonography.	Remington (5), Hammond (2).	6 months to 1 year.	52	\$10 per month, \$50 for six months.	104
Nov. 1, 1890	34	Benn Pitman's phonography.	Remington (3) ...	do	38	Free	105
Sept. 17, 1890	10	Graham's phonography.	Caligraph	3 to 10 mos.		\$5 per month	106
Sept. 1, 1890	.....	Munson's and Benn Pitman's phonography.	do	3 to 4 mos.		\$10	107
Oct. 10, 1890	7	Graham's phonography.	Remington (1) ...	do	39	do	108
.....	5	Benn Pitman's phonography.	Smith	6 months		\$40 for course	109
Sept. 1, 1890	118	Cross's shorthand	Remington (5), Caligraph (2), Yost (1), Smith (1).	15 weeks..	46	\$10 for 10 weeks...	110
Sept., 1890	20	Sloan-Duployan, shorthand.	Remington (1) ...	6 months ..		\$6 per term	111
Apr. 1, 1889	47	do	Caligraph	20 to 40 weeks.	40	\$10 per quarter of 10 weeks.	112
Sept., 1890	30	Benn Pitman's phonography.	Remington (2) ...	8 months..	42	\$2.50 per month...	113
Dec., 1890	.....	Isaac Pitman's phonography.	do	3 months..		\$12 for course	114
Sept. 1, 1890	.....	Benn Pitman's phonography.	Caligraph (1)	12 months.	32	Free	115
July, 1890	2	Osgoodby's phonography.	do	4 months..		\$20	116
Sept. 1, 1890	6	Sloan-Duployan shorthand.	Remington	About 3 months.	40	\$35	117
Sept. 16, 1890	16	Cross's shorthand	Caligraph (1)	6 months.	38	\$5 per month	118
Sept. 18, 1890	14	Benn Pitman's phonography.	do	do		\$5 per term of 3 months.	119
Jan. 1, 1891	10	Pernin's shorthand.	Yost (1), International (1).	8 months..	40	\$5 per month	120
July 20, 1890	8	Benn Pitman's phonography.	Caligraph	6 months..		\$60 for six months.	121
Feb. 25, 1891	40	Moran's phonography.	Smith	4 to 5 mos.	52	\$10 per month	122
Sept. 1, 1891	50	Pernin's shorthand.	Remington (3) ...	do	40	Free to class; extra pupils, \$5 per month.	123
Sept. 8, 1890	9	Day's phonography.	Remington (1) ...	do	35	\$1 per month	124
Dec., 1890	30	Hall's phonography.	do	do		\$5 for 13 lessons...	125

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	NEW HAMPSHIRE—continued.										
126	Epping	Hedding Academia ..	F. E. Rollins	1							10
	NEW JERSEY.										
127	Trenton	Public high school...	Charles E. Roberts	1			25	25			50
	NEW MEXICO.										
128	Farmington	San Juan Industrial College.	P. C. Bryce	1							
129	Las Cruces	Visitation Academy ..		2							
130	Las Vegas	Las Vegas Seminary.	Mrs. Jennie Frey .	1		6					6
	NEW YORK.										
131	Batavia.....	Private instruction..	Mabel I. Brockway	1				1			1
132	Brooklyn	School of Our Lady of Mercy (St. Francis's College).	Rev. Bro. Bruno, O. S. F.	1	20						20
133	do	St. John's School (St. Francis's College).	Rev. Bro. Anthony, O. S. F.	1	13						13
134	do	St. Peter's Academy ..	Rev. Bro. Pascal ..	1	12						12
135	Ithaca.....	The Cascadilla School.	Wm. F. Speidel ...	1	8						8
136	Homer.....	Private instruction..	Ida C. Lansing....	1	1	5		2			8
137	Middle Village..	Union Free School...	James Cullen.....	1							39
138	Mount Vernon..	Young Men's Christian Association.	Mrs. E. D. Costales.	1			11		1		12
139	Newburg.....	Mrs. E. E. Hall's Shorthand School.	Mrs. E. E. Hall....	1		12	2	3	4		21
140	New York.....	The New York College of Phonography.	Wilbur M. Bates..	3	5	4	3	9			21
141	do	Central Evening High School.	Henry T. Brennan.	1			*125				*125
142	do	Headquarters Salvation Army.	Peter Glenn	1			11				11
143	Norwich.....	Norwich Academy and Union Free School.	Myrtie E. Moncrieff.	1	2	8		6		1	17
144	Plattsburg	Plattsburg High School.	F. J. Phillips.....	1	10	20	(18)				48
145	Rondout.....	St. Mary's School....	Rev. Bro. Nicholas	1	6						6
146	Sing Sing	Palmer's School of Stenography, and Typewriting, Palmer's Collegiate and Business College.	Fred A. Hopper ..	1			10				10
147	Waverly.....	Waverly Business School and Institute of Shorthand and Typewriting.	Ella Sullivan.....	1	1	2					3
	NORTH CAROLINA.										
148	La Grange.....	Kinsey Female Seminary.	Miss M. F. Noell..	1		12					12
	NORTH DAKOTA.										
149	Grand Forks ...	Northwestern Institute of Shorthand, Northwestern College of Commerce.	Miss Rose A. Gorman.	1	10	25	8	7			50

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
July 22, 1890	10	.....	.....	.....	.....	.....	126
Nov. 3, 1890	50	Isaac Pitman's phonography.	Remington	6 months..	.....	Free	127
Oct., 1890	.....	Scott-Browne's phonography.	None	5 months..	40	\$10 for 5 months ..	128
1890.....	.....	.....	.....	.....	.....	.....	129
Sept. 1, 1890	6	Pernin's shorthand.	Remington	3 months..	40	\$5 per month	130
July 14, 1890	.....	McKee's shorthand.	Smith (1)	40 lessons.	.....	\$35 for shorthand, \$10 for type-writing.	131
Sept. 10, 1890	20	Benn Pitman's phonography.	Caligraph .....	.....	40	Free.....	132
Nov. 3, 1890	13	Benn Pitman's phonography.	Remington and Caligraph (20).	2 years....	40	.....	133
Jan., 1891	12	Benn Pitman's phonography.	Caligraph	6 months .	40	Free.....	134
1890	8	Graham's phonography.	Remington (2)...	2 years....	34	No extra charge for shorthand.	135
Oct. 21, 1890	8	Munson's phonography.	None	6 months .	24	\$8 per term	136
Oct., 1890	39	Isaac Pitman's phonography.	do .....	.....	.....	Free.....	137
Nov., 1890	12	Burnz's phonography.	Remington	5 to 6 mos.	.....	Free; for private pupils, \$30 to \$40 for course.	138
Oct. 27, 1890	12	Allen's phonography.	do	3 months .	.....	\$35.....	139
Oct. 15, 1890	21	Isaac Pitman's phonography.	Remington, Caligraph, Crandall, and Smith (7).	4 to 6 mos.	.....	\$10 per month	140
Oct. 6, 1890	*125	Munson's phonography.	None	2 seasons .	24	Free.....	141
Mar. 1, 1891	11	Isaac Pitman's phonography.	Caligraph (2)....	6 to 12 mos.	52	Free.....	142
Sept. 2, 1890	17	Benn Pitman's phonography.	Remington (1)...	5 months .	38	\$8 per month.....	143
Feb. 2, 1891	48	Lindsley's tachygraphy.	Remington (3), Caligraph (2).	do	40	\$5 for term of 20 weeks.	144
Oct., 1890	6	Pitman's phonography.	.....	.....	40	Free.....	145
Sept. 15, 1890	10	Benn Pitman's phonography.	Remington (2)...	1 year	40	\$40.....	146
Jan, 5, 1891	4	do	Remington	4 to 6 mos.	48	\$35 for course.....	147
Sept. 1, 1890	12	do	Remington (1)...	1 year	40	\$50 for 40 weeks ..	148
Aug. 12, 1890	45	Cross's shorthand	Remington (2)...	20 weeks..	48	\$60 for complete course.	149

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
OHIO.											
150	Bellefontaine . . .	First Baptist Church, private instruction.	Rev. Joseph Weston.	1			6				6
151	Cleveland	Private instruction..	S. Louise Patte-son.	1		1			2		3
152	do	Young Men's Chris-tian Association (Alabama Street Railway Branch).	D. C. Mac Watters	1			9				9
153	Coolville	Public schools	Albert Weather-bee.	1	1	3					4
154	Georgetown	Georgetown College .	Miss Bettie Ste-phan.	1	3	7					10
155	Quaker City	Private instruction..	J. H. Reid	1			20	18			38
156	Salem	Campbell School of Stenography, Salem Business College.	H. W. Campbell...	1	5	16	3	2			26
157	Wadsworth	Western Reserve Normal College.	C. H. Kilgore	1	3	5					8
158	Warren	Warren's School of Stenography and Typewriting.	E. L. King	1	4	8	5	5		1	23
OREGON.											
159	Albany	Albany Collegiate Institute.	H. M. McKee	1	6	6					12
PENNSYLVANIA.											
160	Allegheny City . .	Public high school...	W. N. Paulson . . .	1	35	15					50
161	Altoona	Private instruction..	W. G. Anderson ..	1	7		10				17
162	Blairsville	St. Mary's Convent ..									
163	Boiling Springs .	Private instruction..	Rev. Albert Bell..	1			6	1			7
164	Butler <i>a</i>	Private instruction..	Jessie Richards...	1			29	15			44
165	Dallas	do	E. M. Lewis	1			4				4
166	Gettysburg	do	Noah E. Yeiser ...	1							2
167	do	Pennsylvania Col-lege, private in-struction.	Rev. Joel Swartz, D. D.	1	22						22
168	Greencastle	Private instruction..	Annie M. Goetz...	1							3
169	Kennett Square . .	Martin Academy . . .	H. E. Painter	1	1	5					6
170	Philadelphia	Studio and Pen Art Hall.	J. H. Crabbe	1	10						10
171	do	Philadelphia Uni-versity of Short-hand.	Benjamin Stanley Banks.	4	40	35	46	26			147
172	do	Private instruction..	J. Howard Jeffries	1			8	17			25
173	Frankford; Philadelphia.	Young Men's Chris-tian Association (Frankford branch).	W. H. Long	1			12				12
174	Philadelphia	Young Men's Chris-tian Association (South branch).	Thomas J. McLer-non.	1			20				20
175	do	Young Men's Chris-tian Association (Pennsylvania R. R. department).	Reno Schock	1			36				36

^a Data in reference to instruction in Kittanning, Pa., are included.

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Feb. 1, 1891	6	Isaac Pitman's phonography.	Remington (1) . . . . .	.....	44	Free	150
Jan. 19, 1891	1	Isaac Pitman's phonography, modified.	do	8 to 12 mos.	48	\$75	151
Nov. 12, 1890	9	Scovil's shorthand	Caligraph (1)	21 weeks..	.....	Membership in association.	152
Sept., 1890	4	Benn Pitman's phonography.	Smith (1) . . . . .	.....	32	\$30	153
Sept. 16, 1890	10	do	Remington (1) . . . . .	.....	40	\$15 per term of 10 weeks.	154
July 30, 1890	38	do	Caligraph, Remington.	1 year	40	\$10 for 3 months, \$40 for 1 year.	155
Apr. 1, 1891	21	Cross's shorthand.	Caligraph (1), Smith (1).	6 months	52	\$8 per month.....	156
....do	8	do	Caligraph.....	4 to 5 mos.	38	\$30 for full course.	157
Jan. 22, 1891	22	do	Remington (3)	6 months	52	\$45	158
Sept., 1890	12	do	Smith.....	4 to 6 mos.	44	\$10.50 per term....	159
....do	50	Graham's phonography.	None	2 years	40	Free	160
Nov. 1, 1890	17	Benn Pitman's phonography.	.....	.....	.....	25cents per lesson.	161
Sept., 1890	.....	....do . . . . .	.....	.....	.....	.....	162
Jan. 1, 1891	7	Isaac Pitman's phonography.	.....	.....	.....	\$5	163
Jan., 1891	44	do	Remington	5 months..	.....	\$20	164
1890	4	Benn Pitman's phonography.	.....	.....	.....	.....	165
Apr. 1, 1891	2	Munson's phonography.	.....	40 weeks..	.....	\$20	166
Nov., 1890	22	Isaac Pitman's phonography.	.....	10 weeks..	40	\$15 for 10 lessons .	167
Jan., 1891	3	Munson's phonography.	.....	30 weeks..	.....	\$25	168
Sept., 1890	6	Graham's phonography.	Hammond (3)	7 or 8 mos.	36	\$32	169
....do	12	Benn Pitman's phonography.	Remington	3 months..	.....	From \$3 to \$6 per month.	170
Sept. 1, 1890	147	Benn Pitman's and Graham's phonography.	Remington (10)	4 to 7 mos.	.....	Day, \$25 for 3 months; evening, \$25 for 6 months.	171
Dec., 1890	25	Isaac Pitman's phonography.	.....	.....	.....	Free	172
Oct. 1, 1890	12	Graham's phonography.	Remington, (2), Caligraph, (1).	6 months..	(a)	Membership in association.	173
Nov., 1890	20	Isaac Pitman's phonography.	Hammond, (1), Yost, (1).	20 lessons.	.....	....do	174
Oct., 1890	36	Benn Pitman's phonography.	Remington (1), Caligraph (2), Hammond (1).	7 months..	23	do	175

a 25 weeks, or 52 lessons.

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	OREGON—cont'd.										
176	Reading	Reading College of Phonography and Typewriting.	Elmer W. Deck...	2			15	7			22
177	Scranton	Young Men's Christian Association.	A. N. Wylie.....	1			11				11
178	Sharon	Hall Institute	Chas. B. Reno.....	1	3				2	2	7
179	Sheakleyville...	Sheakleyville Shorthand School.	R. W. Philips	1			4	2	2	3	11
180	St. Clair	Cousens' Commercial School.	Oliver M. Cousens.	1	21	17					38
181	Towanda	Private instruction ..	W. F. Harris	1			6	4			10
182	West Grove	do	M. Florence Maule	1			2	4			6
183	Williamsport...	do	Thos. O. Long.....	1			1				1
184	do	Stephenson's Business College.	Emma C. Beals ...	2	20	25	12	13	1	3	74
	SOUTH CAROLINA.										
185	Charleston.....	Young Men's Christian Association.	Arthur R. Forbes.	1			12				12
186	do	Charleston Orphan House.	D. B. Henderson ..	1			8	10			18
187	do	New Rapid School of Shorthand.	Miss Carrie H. Clotworthy.	1	1	3	4	2			10
188	do	Shorthand Headquarters.	J. F. Reid.....	1	3		1		2		6
	SOUTH DAKOTA.										
188½	Hot Springs	Black Hills College..	Mattie C. Allen...	1	4	2					6
	TENNESSEE.										
189	Benton	Benton Academy and Business College.	Miss Nellie M. Boothby.	1	6	4					10
190	Bristol.....	Sullin's College.....	M. P. Venable.....	1	8	14					22
191	Columbia.....	Shields & Bose School of Telegraphy and Shorthand.	Miss Bettie Shaub	1			8	3			11
192	Washington College.	Christie's Music and Business College.	.....	1							*10
193	Lamontville	Chestnut Grove Academy.	Geo. Metcalfe.....	1	4	1					5
194	Nashville.....	Nashville Commercial College.	H. S. Shockley	2	24	25			11	3	63
	TEXAS.										
195	Blooming Grove.	Private instruction..	B. F. Carroll	1	15	10	10	5	5		45
196	Brownwood.....	Howard Payne College.	J. H. Grove	1	24	1					25
197	Denton	Texas Normal College.	Miss Pearl Eddleman.	1	5	8					13
198	Galveston	Selby-Powers Business College.	L. J. Selby	2			12	3			15
199	Greenville.....	King's Commercial College.	Miss Mary Colvin.	1		4					4

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Jan. 1, 1891	22	Scott-Browne's phonography.	Hammond (3), Remington (1).	6 months..	52	\$5 per month for shorthand, 3 nights per week; \$7 per month for shorthand and typewriting, 3 nights per week.	176
Nov. 5, 1890	11	Wylie's shorthand	Remington	6 to 12 mos.	24	Membership in association.	177
Mar. 16, 1891	3	Graham's phonography.	Caligraph (1) .....	.....	39	\$40.....	178
Mar. 4, 1891	6	Benn Pitman's phonography.	do	4 to 8 mos.	36	\$5.....	179
Oct. 1, 1890	38	Graham's phonography.	.....	1 year.....	36	\$150.....	180
Oct., 1890	10	Isaac Pitman's phonography.	Remington and Caligraph.	*1 year.....	.....	Free	181
.....	6	Benn Pitman's phonography.	Remington (2) .....	.....	.....	.....	182
Dec. 1, 1890	1	Isaac Pitman's phonography.	Remington (1) .....	.....	.....	.....	183
Sept. 1, 1890	74	Graham's phonography.	Remington (4), Caligraph (1).	6 to 12 mos.	52	\$30 for life scholarship.	184
Nov. 10, 1890	12	Isaac Pitman's phonography.	.....	13 weeks.....	.....	Membership in association.	185
Feb., 1891	18	Benn Pitman's phonography.	Hammond (1).....	.....	.....	\$15 per month	186
Nov. 10, 1890	10	McKee's shorthand.	Remington (1), Yost (1).	6 months .....	.....	\$25 per quarter for shorthand and typewriting.	187
Oct. 1, 1890	4	Moran's phonography.	Caligraph (1)	4 months .....	.....	\$25.....	188
Sept., 1890	6	Benn Pitman's phonography.	Yost and Remington.	6 months ..	38	\$60 for course.....	188½
Aug. 4, 1890	.....	Cross's shorthand and Pitman's phonography.	Remington	4 to 6 mos.	40	\$20 per term of 40 weeks.	189
1890	22	Benn Pitman's phonography.	Caligraph (2), Remington (1).	10 months.	40	\$60.....	190
Feb. 4, 1891	11	do	Remington (1)	6 months ..	52	\$5 per month.....	191
1890 .....	.....	Pernin's shorthand.	Remington (1)....	do	36	\$3 per month.....	192
Jan. 6, 1891	5	Isaac Pitman's phonography.	None	5 months ..	25	\$10 for course.....	193
.....	.....	Cross's shorthand.	Remington (2), Caligraph (1), Yost (1).	do	51	\$30 for 3 months; \$45 for 5 months.	194
1891	40	Benn Pitman's and Graham's phonography.	.....	20 days .....	.....	50 cents per day ..	195
Sept., 1890	25	Isaac Pitman's phonography.	Caligraph (2)	3 to 5 mos.	52	\$40.....	196
Sept. 16, 1890	13	Benn Pitman's phonography.	Caligraph	6 to 8 mos.	42	\$10 per month	197
Feb. 2, 1891	15	Benn Pitman's and Graham's phonography.	Remington and Hammond (3).	4 to 6 mos.	52	\$75 for scholarship.	198
Sept. 1, 1890	4	Munson's phonography.	Caligraph (1), Remington (1).	3 to 6 mos.	52	\$45 for the course.	199

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated]

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	TEXAS—cont'd.										
200	Houston.....	Incarnate Word Academy.	.....	4							
201	Marshall	Marshall Normal School.	H. T. Lyttleton ...	3							36
202	San Marcos.....	Lone Star Business College.	C. W. Short	1	5	5	5		1		16
	UTAH.										
203	Logan City	Brigham Young College.	Francis Bannerman.	1	17	3	5	3			28
204	Ogden	L. J. Rivers' School of Shorthand.	L. J. Rivers.....	1							
205	Salt Lake City..	University of Deseret	John M. Whitaker	1	5	5					10
	VERMONT.										
206	Newbury	Newbury Seminary..	Elmer E. French..	1	9	1					10
207	Rutland	Rutland English and Classical Institute and Business College.	Miss M. E. Hall...	1	6	5	2	3			16
	VIRGINIA.										
208	Crozet	Miller Manual Labor School.	J. S. Barnwell	1	13						13
209	Hollins	Hollins' Institute....	Miss M. M. Williams.	1		4					4
210	Marion	Marion Female College.	Estelle Peel-Izor..	1		11	6				16
211	Richmond	Richmond High School.	Miss Jean Gibson.	1		46					46
212	Saltville	Private instruction..	H. B. Dunn.....	1	2						2
213	Stuart	Stuart Normal College.	Miss Lucy D. Gilbert.	2	8	12				1	21
214	Waynesboro....	Waynesboro Business College.	J. W. Cook.....	2	12	13			6	2	33
215	Winchester.....	Young Men's Christian Association.	.....	1			20				20
	WASHINGTON.										
216	Chehalis.....	Chehalis Shorthand School.	Chas. P. Carrithers.	1							
217	Colfax	Colfax College.....	William English..	1	8						8
218	Spokane	Trinity Military Academy; private instruction.	J. Grier Long.....	1	9						9
219	Tacoma.....	Puget Sound University.	Miss Faye E. Wheeler.	1							16
	WEST VIRGINIA.										
220	Buckhannon....	West Virginia Conference Seminary Business College.	Mrs. A. G. McIver.	2	7	1					8
221	Salem	Salem Business College.	C. L. Bond.....	1	5	1					6
	WISCONSIN.										
222	Beloit	Beloit College	J. G. Cross	1							15
223	Delavan	Private instruction..	do	1							8
224	De Pere	do	Ella Mae Steele...	1	1	1					2

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Sept., 1890	-----	Benn Pitman's phonography.	Remington (1), Caligraph (1).	-----	-----	-----	200
Sept., 1890	36	Isaac Pitman's phonography.	Remington and Caligraph.	3 to 10 mos.	36	\$27 to \$36 per session.	201
Mar. 1, 1891	15	Scott-Browne's phonography.	Remington (2), Hammond (2).	6 mos	40	\$8 per month; \$25 for scholarship.	202
Sept. 1, 1890	20	Isaac Pitman's phonography.	-----	36 weeks . .	-----	-----	203
Jan. 1, 1891	11	Graham's phonography.	Remington (2) . .	6 months . .	52	\$10 for 6 months, \$10 for 1 month individual instruction.	204
Dec. 1, 1890	12	Isaac Pitman's phonography.	Remington	. . . do	40	\$17 for course	205
Sept., 1890	10	. . . do	Hammond (5) . . .	1 year	36	\$5.25, shorthand and typewriting, term of 12 weeks.	206
Jan. 1, 1891	16	Benn Pitman's phonography	Remington (2) . .	1 to 3 terms	36	\$30 per term	207
Apr. 14, 1891	13	Graham's phonography.	-----	-----	-----	-----	208
1890	4	The stenograph . .	Remington (2) . .	5 months . .	-----	\$30	209
Sept. 1, 1890	16	Benn Pitman's phonography.	-----	-----	40	-----	210
Feb. 15, 1891	46	Munson's phonography.	Yost	9 months . .	38	Free	211
Jan. 16, 1891	2	Benn Pitman's phonography.	Remington (1) . .	-----	-----	\$25	212
Sept., 1890	20	Pernin's shorthand.	Caligraph (2) . . .	4 to 6 mos . .	52	\$30	213
Sept. 1, 1890	25	. . . do	Remington (3), Caligraph (1).	4 to 6 mos . .	52	\$35	214
Jan. 15, 1891	20	Benn Pitman's phonography.	-----	-----	-----	Free	215
1891	-----	. . . do	Remington	6 months . .	-----	\$10 per month	216
1890	-----	Pernin's shorthand.	National (1)	6 months . .	36	\$15 for 3 months . .	217
Mar., 1891	9	Scovil's shorthand.	Remington (1), Crandall (1).	20 weeks . .	40	\$40 for course	218
Sept., 1890	16	Cross's shorthand	Remington (2) . .	3 to 6 mos . .	40	\$36 per term	219
Mar. 9, 1891	8	Benn Pitman's phonography.	Rapid (1)	5 to 6 mos . .	38	\$1 per week	220
Mar. 9, 1891	6	. . . do	Remington (1) . .	6 months . .	39	\$25 for course	221
-----	15	Cross's shorthand.	-----	10 lessons . .	-----	\$10	222
Apr. 15, 1891	8	. . . do	-----	. . . do	-----	\$10	223
Jan. 19, 1891	2	Graham's phonography.	Remington	6 months . .	50	30 cents per lesson .	224

Table of institutions and classes in the United States into which shorthand

[Estimates are indicated

	Location.	Institution with which connected.	Principal teacher.	Number of teachers.	Number of students.						Total.
					Day.		Evening.		By mail.		
					Male.	Female.	Male.	Female.	Male.	Female.	
	WISCONSIN—CON.										
225	Kenosha.....	Private instruction..	S. C. Newman.....	1	.....	.....	6	.....	.....	.....	6
226	Marinette	Northwestern Col- lege of Commerce.	Jas. R. Bryant	1	5	10	6	1	.....	.....	22
227	Merrill	Business College	W. L. Sill	1	4	3	.....	.....	2	1	10
228	Waukesha.....	Waukesha College of Shorthand and Typewriting.	E. L. St. John	1	.....	.....	16	17	.....	.....	33
229	West Superior..	Northwestern Col- lege of Commerce.	Thos. Thorkildsen	1	*15	*5	*7	*3	.....	.....	*30

was introduced during the scholastic year ended June 30, 1891—Continued.

by an asterisk (*).]

Date of introduction of study.	Number of pupils since introduction.	System taught.	Typewriters used.	Time required for completion of course.	Number of weeks in scholastic year.	Charge for tuition.	
Oct. 15, 1890	6	Benn Pitman's phonography.	None .....	.....	.....	50 cents per hour for class instruction.	225
July 1, 1890	22	Cross's shorthand.	Remington (1), Caligraph (1).	6 months .	52	\$60.....	226
Sept. 1, 1890	7	Isaac Pitman's phonography.	Remington (2)...	4 months .	32	\$50.....	227
Nov. 25, 1890	33	Graham's phonography.	Remington (1), Caligraph (1).	6 months .	52	\$8 per month.....	228
Nov. 1, 1890	*30	Cross's shorthand.	Remington (1), Caligraph (1).	4 months .	17	\$25 for 3 months ..	229

EMPLOYMENT OF STENOGRAPHERS IN COURTS.

On April 16, 1860, the legislature of the State of New York authorized the employment of stenographers in the courts of the first judicial district. This was the earliest law having reference to court reporters. An amendment in 1863 made the stenographers sworn officers of the courts. Maryland, on March 7, 1863, empowered the judge of the superior court of Baltimore to appoint a shorthand writer, and three years later two stenographers were authorized by the State of Pennsylvania for the district court of Philadelphia. Illinois, Kansas, Maine, and Wisconsin enacted laws providing for the employment of stenographers in certain courts in 1867, New Jersey in 1868, and Michigan and Vermont in 1869. In the following year official stenographers were introduced in Massachusetts and West Virginia, while the judges of certain courts in Kentucky and Iowa were privileged to appoint such officers in 1872. Laws providing for stenographic court reporting were passed during the next ten years by New Hampshire, Colorado, Indiana, Dakota, Nebraska, Georgia, Louisiana, Texas, Ohio, Connecticut, Alabama, California, Arizona, Nevada, Rhode Island, Montana, and Wyoming. Illinois decided through its supreme court that the law of that State was unconstitutional, and the employment of official reporters was abolished in 1872; and no laws are known to be in effect in the District of Columbia, Indian Territory, Virginia, and Washington.

More detailed information of the action of the States and Territories in reference to official shorthand reporters will be found in the appended summaries. Many of the facts mentioned have been kindly furnished by official reporters in the several Commonwealths.

ALABAMA.—By the law of February 12, 1879, Alabama authorized the judges presiding in the circuit and chancery courts of the State, held in the city of Mobile, and also the judge of the city court, in the city of Mobile, to appoint a competent shorthand reporter to hold office during the pleasure of the judge, who must, at the request of either party or of the court in a civil action or proceeding, take down in shorthand all testimony, the objections made, rulings of the court, the exceptions taken, and the oral instructions given, and, if directed by the court or requested by either counsel, write out the same in plain, legible longhand, and verify and file the same with the clerk of the court in which the case was tried. The law further provided that the report of the official stenographer should be *prima facie* a correct statement of all testimony and proceedings in court. A compensation of \$10 per day for taking notes was also provided for, with 15 cents per folio of 100 words for the first copy and 7½ cents per 100 words for each duplicate. No person could be appointed without being duly examined by a committee, writing in shorthand at the rate of at least 140 words per minute for five consecutive minutes upon matter not previously written by him, and transcribing the same into longhand with accuracy. The

official reporter must attend to the duties of his office in person except when excused for good and sufficient reason by order of the court. Employment in his professional capacity elsewhere was not to be deemed a good and sufficient reason for excuse.

On the 23d of February, 1883, the legislature passed an act for the appointment of an official stenographer for the city courts of Montgomery and Dallas and for the courts held in said counties. This law provided that the reporter should not be required in any civil case to transcribe his notes until compensation should be tendered him or deposited in court for that purpose. In taking down testimony out of court it should be the duty of the reporter to take down as they occurred all remarks made by the counsel, parties, or other persons during the examination which related to the testimony, or manner, or appearance, or conduct of witnesses, or to the cause in which the discussion was taken, and any other remarks made in the hearing of the witnesses which either party wished taken down.

ARIZONA passed laws in 1879 providing that the district judge of each judicial district may appoint a competent shorthand reporter, to hold office during the pleasure of the judge, to report all criminal cases coming before the district courts, and for the payment of a salary of \$1,000 per annum. For the reporting of civil cases he should receive \$10 per day for each day employed and 15 cents a folio for transcript. In any civil case in which his services are required the reporter may, before performing work required of him, demand that an amount equal to his fees be deposited in the court for the payment thereof.

ARKANSAS.—By the law of 1871 Arkansas provided for the appointment of stenographers by the judges of circuit courts when the same would in their opinion conduce to a more speedy and economical administration of justice. In 1873 a law was enacted which provided that no court or judge should have power to appoint a stenographer whose salary, cost, expenses, or per diem, or any part thereof, should be paid by the State or any county or taxed as costs against any party in any proceeding, either civil or criminal; and as a result of this provision there is at the present time but one official reporter in the State, he being employed in the United States court for the western district of Arkansas at Fort Smith. His appointment was made by the judge through authority from the Attorney-General and a yearly salary is paid him. His duty is to report all murder cases tried in that court, and on account of the large number of murders committed in the Indian Territory over which the court mentioned has jurisdiction, he and an assistant are almost constantly employed in reporting that branch of cases alone.

CALIFORNIA.—The first law of California providing for the appointment of court reporters was enacted on May 17, 1861. This law provided for the appointment of official reporters by the judges of three district courts, and that their compensation should not exceed \$15 a day.

Shorthand reporters were engaged by parties to report cases in their courts as early as 1856. The law of 1861 was amended from time to time so as to include other district courts and also county courts. In 1872 an act was passed requiring an examination of all persons before appointment and providing that the reporter should be examined by a committee of three members of the bar and should write 150 words a minute for five consecutive minutes on matter not previously seen by him, and immediately read the same and transcribe his notes into legible longhand. Reporters are appointed in all courts of record. Such courts consist of the supreme, the superior, and certain police courts; they hold their office during the pleasure of the judges appointing them, and are paid at the rate of \$10 a day for reporting and 20 cents per hundred words for transcript. In civil cases the party prevailing pays the reporter's per diem, and it is taxed as costs of the case, to be collected from the losing party. The party ordering a transcript of course pays for it, but in case the judge orders one he can divide the cost between the respective parties or compel either side to pay it, as he sees fit. In criminal cases the per diem and the cost of transcription are always paid by the county in which the case is tried. In addition to the courts of record, in all preliminary examinations on charges of felony, at the request of the prosecution or defense, the justice must appoint a reporter to take down the testimony, and in case the defendant is held to answer to the charge of felony, the evidence so taken must be transcribed and filed with the county clerk. The county also pays for this, on order of the committing magistrate. The reporter of the supreme court is appointed by that court, holds office at their pleasure, and reports all oral arguments and decisions and receives a salary of \$3,000 per year. The act authorizing his appointment went into effect January 1, 1873. There is a superior court for each county, having from one to twelve departments, according to population, with a judge for each department, and each judge may appoint a reporter. These superior courts have jurisdiction of all criminal cases except misdemeanors, and of all civil cases involving title to real estate or an amount of \$300 and upwards. Until 1862 the per diem paid reporters was \$15, no provision being made for payment for transcript; but since that time the per diem and fees for transcript have remained as at present. The law of California in reference to shorthand reporters may be obtained by consulting the case of *ex parte Reis*. (64 Cal. Reports, 233.)

COLORADO.—The provisions of the law of 1874 in reference to the appointment and employment of stenographic reporters in the district courts of the Territory of Colorado stand upon the statute book of the State to-day in the same language. They are that the judge of each judicial district may appoint a competent shorthand reporter to attend during any term of the court or any part thereof or during the trial of any cause or causes, who shall on the direction of the court take down in shorthand all the testimony, the rulings, the exceptions taken,

and oral instructions given and other proceedings had during the trial of any causes, and in such causes as the court may designate, and in such reasonable time after the trial as the court may appoint, shall write out the same in plain, legible longhand writing and file it, together with the original shorthand writing, with the clerk of the court in which the cause was tried. Such reporter shall receive for his services such pay as the judge of the court may direct to be paid from the treasury of the county wherein the court sits, not exceeding \$10 per diem for reducing the testimony to shorthand and not exceeding 20 cents per folio of 100 words for making transcripts in longhand when so directed by the court. The per diem allowance shall be paid to the reporter by the county in which the suit may be pending and the allowance for transcript shall be paid as other costs of the suit.

There are now thirteen judicial districts in the State, of which the most populous is the second, which embraces Arapahoe County. In this district there are five judges of the district court, each of whom appoints a stenographer, while the other districts have one judge each. The maximum per diem is allowed stenographers, and the rate for transcribing is fixed at 15 cents per folio in this district; but in the other districts the full amount both for per diem and transcripts is obtained.

In 1883 the general assembly passed a law authorizing the employment of stenographic reporters in the county courts of the State, which provides that the judge of any county court may, when in the opinion of the board of county commissioners of such county it shall be expedient or necessary, appoint a competent shorthand reporter whose duties shall be such as are now or may hereafter be provided by law for reporters employed in the district courts. Such reporter shall receive for his service such pay as the board of county commissioners may fix, to be paid from the treasury of the county, not exceeding \$10 per diem and 15 cents per folio for transcripts. The county court of Arapahoe County is the only one in the State employing a stenographer under this act.

In 1883 the legislature established criminal courts in the counties of Arapahoe, Pueblo, and Lake, and the appointment of stenographers was authorized for those courts on the same basis as for the district courts. In 1887 the criminal court for Arapahoe County was abolished, and in 1891 those for Pueblo and Lake met with the same fate. Superior courts were also established in 1883 for cities having over 25,000 inhabitants. The only superior court organized was in the city of Denver, but it was short-lived, a subsequent legislature repealing the act.

In 1885 the judges of the supreme court were authorized to employ such clerical and stenographic assistants in connection with their official duties as might in their judgment be deemed necessary, such persons to be removed at the pleasure of the justices. An annual appropriation of \$2,500 was provided by section 2 of the law, and it is stated that the three justices now employ amanuenses at about \$80 per month

each for about ten months in the year, to whom they dictate their rulings, etc.

In 1889 a supreme court commission was established for the purpose of expediting the work of the supreme court, and an appropriation of \$1,000 annually was made for clerical and stenographic assistance. This commission was abolished in 1891 and a court of appeals was appointed in its stead, with like provisions for stenographic help.

It will be noted that Colorado provides for the employment of stenographers in all its courts of record.

CONNECTICUT.—A law authorizing the judges of the superior court to employ a stenographer to take the evidence and other proceedings in criminal cases was enacted by the State of Connecticut in 1878, but not being mandatory in all criminal cases, but optional, a stenographer was rarely employed, except in murder trials. In 1884 a law was passed providing that the judges of the superior court, at their meeting in June biennially, should appoint one skillful stenographer for each county, to be the official stenographer in and for the county for which he is appointed for the term of two years succeeding the 1st day of July succeeding his appointment, and until his successor is appointed and qualified, unless sooner removed by said judges for cause. He shall be sworn and shall then be an officer of the court, and it shall be his duty to attend the terms and sessions of the superior court for which he is appointed and make accurate shorthand reports of all the proceedings in said court, except the arguments of counsel. An exemplified copy shall constitute a part of the official record of the case. He shall furnish a copy of his notes when requested within a reasonable time, and shall be paid for his services by the State the sum of \$10 per day for attendance and 10 cents a folio for each copy of transcript, which, if ordered by the court, will be paid by the State; otherwise by the party requesting it. A stenographer may be employed in hearings before the probate courts, but his compensation must be paid by the party employing him.

DELAWARE has only recently provided for official reporters in certain of its courts and no appointments have yet been made. The salary is \$1,500 per annum, and the Wilmington News has quite recently expressed the opinion that it will be difficult to secure a properly qualified stenographer at the compensation mentioned.

FLORIDA.—The only provision made for court reporting is an act authorizing the judges to appoint a stenographer when they may deem it necessary so to do at a compensation of \$10 per day, with an allowance for mileage. Stenographers are sometimes so appointed on the application of counsel in the case at issue.

GEORGIA.—On February 25, 1876, an act was passed allowing a stenographer to each superior court circuit in the State. At present there are twenty-two circuits and the stenographers are appointed by and hold office at the pleasure of the judges. In criminal cases the com-

compensation is \$15 per day, to be paid by each county in which the work is done, not to exceed \$2,500 per annum in any one county. In civil cases the compensation is not to exceed 10 cents per 100 for reporting and 10 cents per 100 words additional for transcribing, to be taxed against the parties in the case as the parties may agree or as the court may direct.

An act was passed on the 24th of December, 1886, authorizing a stenographer for the supreme court. On November 4, 1889, the supreme court was allowed two additional stenographers, one for each judge, who are appointed and dismissed at the pleasure of the court and are paid by the State a salary of \$1,500 per annum each. Their work as provided by the law is almost entirely that of amanuenses, for the supreme court being solely a court of appeal all evidence is reduced to writing before presentation.

IDAHO.—Stenographers were first employed officially in the territorial courts in 1889, when an act was passed providing for the appointment of a stenographic reporter in each judicial district, with a salary of \$2,000, which covered compensation for transcripts when ordered by a party moving for a new trial. In 1891 the State legislature repealed the above and enacted a law authorizing the appointment of a stenographic reporter in each judicial district of the State, with a salary of \$1,000 per annum and an additional fee of 15 cents per folio of 100 words for transcripts in civil cases, transcripts in criminal cases to be furnished to either party free of cost. The reporter must give a bond in the sum of \$5,000 for the faithful performance of his duties. Under this law reporters are now serving in four of the five judicial districts of the State.

ILLINOIS.—The first law in reference to official reporting in Illinois was passed March 6, 1867. It provided for the appointment of official reporters and for the preservation, in certain cases, of evidence in Cook County, and authorized the judges of the superior court, the circuit court of Cook County, the recorder's court of Chicago, and the county court of Cook County, or a majority of them, to appoint three reporters. This law was drafted by Ely, Burnham & Bartlett, who were the appointees under it. In 1869 another law, extending the employment of reporters, was enacted. The constitution of 1870 prohibited all special legislation, and the supreme court two years later decided that the "act of the legislature authorizing the appointment of official reporters in the courts of Cook County, being a special act, not of uniform operation throughout the State, was abrogated by the constitution of 1870." This decision did away with official court reporters in Illinois.

INDIANA.—The legislature in 1875 passed a law providing that in counties of a certain population (70,000 or more) where the parties should agree to the employment of a reporter, a reporter should be appointed, or, on motion of either party, the court in his discretion

could employ a shorthand reporter to take notes of the testimony therein. In 1877 the law was amended so as to include the counties of Vanderburg, Vigo, Allen, Tippecanoe, and Wayne. In 1881 all counties were placed on an equality. The present laws provide that for the purpose of facilitating and expediting the trial of causes the judge or judges, or a majority of them, of the circuit, criminal, and superior courts of each and every county may appoint one or more shorthand reporters to take down in shorthand the evidence and to note proceedings in the trial of causes pending in such courts whenever in the opinion of the judge presiding at the trial of the cause the evidence ought to be so taken down and the proceedings so noted, or when the parties to a cause agree that the same shall be done. No person shall be ineligible to such office on account of sex. Before proceeding to exercise his office such reporter shall take an oath before some person qualified to administer oaths faithfully to perform his duties. It shall be his duty to be promptly present whenever he shall be required by any judge of such court or courts of his county and to take down accordingly in shorthand the oral evidence delivered in the cause, including both questions and answers, and to note the rulings of the judge in respect to the admission and rejection of evidence and the objections and exceptions thereto. Whenever in any case such reporter shall be requested by either party to furnish to such party a transcript of the evidence, or any part thereof, it shall be his duty to furnish the same written in plain, legible longhand, as soon after being requested as practicable; provided, that the reporter may require payment for such transcript, or the same satisfactorily secured to him, before he proceeds to do the work required of him. Whenever in any case such verbatim report shall be made by the official reporter the original longhand manuscript of the evidence by him made may be filed with the clerk of the court by the party entitled to the use of the same, and in case of an appeal to the supreme court or superior court in general term it shall be the duty of the clerk, if requested to do so by said party, to certify the original manuscript of evidence, when the same shall be incorporated in a bill of exceptions to the supreme court or other court of appeal instead of the transcript thereof, and the said original manuscript of evidence may be used in the supreme court or other court of appeal in the same manner and for all purposes in and for which a certified transcript thereof might heretofore be used; and in such cases the clerk of the court shall be entitled to any fees for that part of the transcript of record containing the evidence. The reporters hold office during the pleasure of the judges and their compensation is fixed at not more than \$5 per day, they being also allowed to charge 10 cents per folio for transcripts.

IOWA.—The first law passed in Iowa regarding the employment of stenographers in court was enacted by the fourteenth general assembly and approved on April 23, 1872. It authorized the judges of the dis-

strict and circuit courts to appoint shorthand reporters when in their judgment they deemed it necessary to expedite public business, who should attend such sessions as the judges may direct and report the oral evidence in cases where the parties would consent thereto, the reporter to be sworn to a faithful performance of his duties and to receive a compensation fixed by the presiding judge, to be not more than \$8 per day for each day employed in court in taking testimony and 10 cents per folio of 100 words for making transcripts of the record, the cost of such transcript to be paid by the party requiring the same, except on trials on indictment, when the court may order transcripts to be audited and paid for from the county treasury in the same manner as the reporter's per diem. This law had no provision with regard to the filing of the reporter's notes with the clerk of the court, and left the matter of making transcripts entirely at the option of the reporter. An amendment was effected by the passage of a bill approved on the 27th of March, 1880, which bill made it the duty of the reporter to report the oral testimony in civil cases "upon the request of either party thereto" instead of "when the parties consent thereto."

This law also amended the clause in reference to compensation so as to read, "to receive compensation for each day actually in attendance in court under order of the judge such sum as may be fixed by the judge, not exceeding \$6 per day, to be audited and paid by the county upon the certificate of the judge of the court." The law of 1880 says: "The judge shall not order the attendance of said reporter during that part of the term when in his judgment the reporting of testimony will not be required, and he shall discharge said reporter from the further attendance at each term as soon as in his judgment the reporting of testimony will not be further required in said term." The custom, however, is to allow the reporters their per diem for each and every full day that court is in session. The compensation for transcripts was reduced from 10 cents to 6 cents per folio of 100 words. The law also provided that "the compensation allowed the reporters for reporting testimony in any case shall in all instances, except where the defendant in a criminal case is acquitted, be taxed as a part of the costs in the case." The amount so taxed up by the reporter as costs in the case, when collected, is paid into the county treasury, and thus it is that the county is reimbursed for the amount paid the reporter on the judge's certificate. It is estimated that the net cost of a court reporter to the county is not greater than one-third of his per diem compensation.

The reporter's shorthand notes in any case, or the transcript thereof, duly certified thereto by him, are competent evidence in any other case or cases in which the same are material and competent to the issues therein, with the same force and effect as depositions. The present law makes it the imperative duty of the reporter to make a transcript of any portion of his notes and duly certify to the same when such

transcript is ordered by either of the parties litigant or by the court, but it gives him the power to retain such transcript until his fees for the same have been paid; it also provides for the certification of transcripts by reporters after their official terms of four years have expired. Iowa is divided into eighteen judicial districts and each of the forty-four judges has appointed a court reporter, of whom two are women.

In 1886 the general assembly gave the judges of the superior courts, of which there are four, the right to employ stenographers, who are to be governed by and subject to the same laws as the reporters of the district courts (the circuit courts having been abolished), with the exception that their per diem compensation is fixed at \$5 for actual time employed.

KANSAS.—Stenographers were authorized for the district and the criminal courts of Leavenworth County by a law of February, 1867. Three years later this law was repealed and another passed, providing for the services of a stenographer, when necessary, in the criminal court of Leavenworth County and regularly in the district court of the first judicial district, including Leavenworth.

Kansas is divided into thirty-five judicial districts, each presided over by a district court. There are also three circuit courts created by special enactments of the legislature for the relief of the district courts, and governed by the laws applicable to the district courts, and which therefore have official reporters. Thus provision is made by law for official stenographers in thirty-eight courts. By legislative appropriation each of the judges and commissioners of the supreme court is allowed a certain sum annually for the hire of a stenographer or an amanuensis. The law of March 13, 1879, provides that the judges of the district courts are authorized to appoint stenographers, who are to be sworn officers of the court and hold office during the pleasure of the judges appointing them. The reporter's duty is to attend upon each term of court and report all actions where directed by the judge or any of the parties. Stenographers so appointed are to receive \$6 per day, which amount shall be taxed by the clerk as other costs in the case; and they may also receive 10 cents per folio for any transcript furnished, to be paid by the party ordering the same. In all criminal cases where the services of a stenographer shall be required by the court the compensation shall be the same as in civil cases and paid as other costs in criminal cases.

This law was superseded in 1884 by another, which provided that no person should be appointed as official reporter of any court in the State without having written at the rate of at least 150 words per minute for five consecutive minutes upon matter not previously written by or known to him, in the presence of a committee of at least three members of the bar practicing in such court, appointed by the judge to make the examination. Before entering upon his duties he shall take and subscribe the official oath. Under the direction of the judge of the

court the reporter shall take full stenographic notes of the evidence and oral proceedings in all cases where his services are requested either by the court or by any party to the action. The compensation of the stenographer remains the same as under the law of 1879, but it was further provided that a stenographer's fee of \$2 should be taxed by the clerk of the court as costs in each case in the district court in any county in which a stenographer should be appointed, which, when collected, should be paid into the county treasury.

KENTUCKY authorized stenographers in the courts of several counties by a law approved March 1, 1872. Under this law official reporters were made *ex officio* examiners, were allowed a common seal, and were given full power and authority to swear witnesses and take certified depositions in any of the courts of the State, receiving for the same the fee granted by law to examiners. Before entering upon their duties they were required to give bond in the sum of \$5,000. The fees were not fixed by law, but the stenographers were permitted to charge standard rates.

Three additional reporters were appointed under the amendment to the law, which was passed in March, 1878. This amendment established \$5 as the per diem compensation for attendance, with 20 cents per hundred words for transcript. Both these laws applied only to the courts of Jefferson County. In the same year stenographers were provided for other courts of the Commonwealth. Stenographers were provided for additional county courts in 1882.

LOUISIANA.—In 1876 the judge of each district court for the parish of New Orleans, wherein appealable cases are tried, was permitted to appoint a competent shorthand writer, capable of reporting at the rate of 150 words per minute, who should be sworn as an expert and officer of the court, and should give bond in the sum of \$1,000 for the faithful performance of his duties. The judge of any district court outside of the parish mentioned was allowed in his discretion in any particular case to appoint a shorthand reporter to take the testimony upon application of all parties to the suit or their counsel. Transcripts were to be furnished within ten days of the taking of the same and the reporter was entitled to charge not more than 35 cents for each folio of 100 words of testimony. The constitution of 1879 abolished all fees and the legislature placed the stenographers in the city of New Orleans on a salary of \$1,800 per annum, with no compensation for transcribing. In 1884 a law was passed providing that when no one would accept the position of reporter in the civil district court of the parish of New Orleans it should be the duty of the minute clerks to make the note of evidence, etc. A bill was introduced by Mr. Dupre into the last legislature which was intended to replace the act of 1879. This was amended in the senate and is reported to be impracticable in many respects. The condition of the courts with reference to the employment of stenographers is regarded as unsatisfactory.

MAINE.—Stenographers were first employed officially in the courts of Maine in 1867 under a statute enacted that year, which provides that at any term of the supreme judicial court the presiding justice may appoint a stenographer, whose duty shall be to take full notes of all oral testimony and other proceedings in the trial of causes, including the charge of the judge, and furnish for the use of the court a transcript of so much thereof as the court may direct, for which he shall receive from the county in which the court is holden a sum not exceeding \$5 per day for attendance, 6 cents per mile for actual travel, and 10 cents per hundred words for transcripts. He shall also furnish a transcript of the evidence and other proceedings taken by him as either party to a trial may request on payment by the party of the sum specified for transcripts. This statute was made applicable to the superior courts of the counties of Cumberland, Kennebec, and Aroostook upon their establishment in 1868, 1878, and 1885, respectively. The appointed stenographer is an officer of the court, and must be sworn to a faithful discharge of his duty.

In 1885 a statute was enacted authorizing the governor and council to appoint, upon the written recommendation of any judge of the supreme judicial court, competent stenographers as commissioners to take depositions and disclosures of trustees. The legislature of 1889 fixed the salary of the stenographer of the superior court of the county of Cumberland at \$1,500 per annum, and the legislature of 1891 authorized the appointment of a stenographer to the chief justice at the same salary, payable from the State treasury. Under the law enacted in 1891 the judge of any court of probate or insolvency may appoint a stenographer to report contested matters in such court, who shall take full notes of all oral testimony and such other proceedings as directed, and when required by the judge shall furnish for the files of the court transcripts, transcribing his notes “in full by questions and answers,” and receiving the same compensation as in the higher courts, to be paid by the county, the county to reimburse itself from the estates in litigation and on account of which the services have been rendered.

The amount legally chargeable for writing out reports of cases carried to the law court and actually paid for by either party whose duty it is to furnish them may be taxed in the bill of costs and allowed against the losing party.

A certified copy of the testimony taken by the official stenographer of any witness at the trial of a former case is evidence to prove the same at any subsequent trial. It has been the custom in this State to write out the testimony in narrative form, omitting all immaterial and repeated matter.

MARYLAND.—The judge of the superior court of Baltimore City was empowered by a law passed on March 7, 1864, to employ a stenographer to report the testimony in trials, to hold office during the pleasure of the court, and to receive a compensation to be fixed by the judge, not

exceeding \$1,500 per annum. In 1867 this law was superseded by a more comprehensive enactment by which the employment of stenographers was authorized in the superior, common pleas, and orphans' courts of Baltimore. These reporters could appoint assistants at their own expense and would hold office during good behavior. The stenographers of the superior and common pleas courts might be required to prepare for publication volumes of reports of selected opinions, particularly those regarding questions of interest to other courts of the State. Such volumes as should be published at the expense of the stenographers could be copyrighted.

MASSACHUSETTS.—The judges of the superior court of Suffolk County (Boston) were authorized in 1870 to appoint two stenographic reporters, who should make reports of such cases as the judge might direct or where the parties agreed in writing that they should be reported. Stenographers are employed regularly by the State only in the superior court, civil sessions. Some three years ago a general State law authorized the appointment of a reporter for the superior court in each county, at \$9 per diem for note-taking while the civil court was in session, and 10 cents per folio of 100 words for each copy of transcript made. These appointments are made by the justices of the superior courts at their quarterly meetings in Boston. These appointments are made without examination. There have been some recent amendments to the law, increasing slightly the per diem compensation in counties other than Suffolk and adding \$500 per year to the salaries of the four reporters in Suffolk County, as their work is steadily increasing in volume. The need of stenographic services is felt in the local Federal courts and most of the hearings before the board of railroad commissioners and board of arbitration and conciliation and the legislative committees are taken in shorthand. Trials of capital cases are reported by order of the attorney-general, and city government debates are taken in full and published in a daily newspaper. The school committee is also reported quite fully, although not *in extenso*.

MICHIGAN introduced the employment of stenographers in the courts in 1869, and next to New York has been regarded as most fully providing for the preservation of court proceedings by shorthand. In the year mentioned a stenographer was provided for in the circuit court of Wayne County (at Detroit), who should be appointed by the governor upon the certificate of the judge that the volume of business made it desirable. The appointee was made a court officer, and was to hold office during the pleasure of the governor. The stenographer's duty was to take full stenographic notes of the testimony and all other proceedings in the trial of every case, and, when desired by the judge or counsel for either party, to make a legible transcript of his notes, to be filed by the clerk and preserved as part of the files in the cause, subject to the inspection and use of both parties. A compensation of \$2,000

per annum was also provided for, and the parties for every issue of fact tried before the court or a jury were required to pay \$3 to the clerk to apply to the stenographer's salary. In 1873 the superior and recorder's courts of Detroit were provided with stenographers, and in 1887 they were authorized for the circuit court of the county of Kent and the superior court of Grand Rapids; in 1879, for the police court of Grand Rapids, and in 1881, for the circuit court of Saginaw County. In no State in the Union are the proceedings of the courts more regularly reported. There are more than thirty judicial circuits in the State, and each has an official reporter, the salary in the more important circuits being \$2,000 per year, with a fee of from 8 to 10 cents per 100 words for transcript. The stenographers are appointed by the governor on the recommendation of the judge and hold office during good behavior, and the fact that they are only removed for cause is believed to have added greatly to their efficiency. The compensation in the less important circuits varies somewhat, being fixed by special acts in each case. The certified copy of an official reporter's notes is *prima facie* evidence of the testimony of a witness, and may be read as a substitute for the original testimony in the event of death, absence, or inefficiency of the witness on a second trial, and repeated decisions of the supreme court of the State have recognized the utility, accuracy, and status of these reports.

MINNESOTA.—A special act of the legislature of 1873 authorized the appointment of an official court reporter for Ramsey County (St. Paul), and in the following year a general law was enacted providing for stenographers in the principal judicial districts of the State. In 1881 a stenographer was authorized for Hennepin County (Minneapolis). The law of 1874 specified the duties of the stenographic reporter to be "to make in shorthand writing a true record or report of the proceedings and evidence taken upon the trials of issues of fact in the several courts held in his district, and, when required by the court or either of the parties to any such trial, to transcribe such record or report into the words which shall be represented by the characters used by him in reporting such proceedings and evidence as the same shall occur." Before such reporter shall enter upon the performance of his duties he shall take and subscribe an oath. "In reporting or recording the evidence of witnesses sworn and examined upon the trial of issues of fact he shall record or report the questions put to the witnesses and the answers thereto given by the witnesses in the words used by the questioners and the witnesses. He shall not be required to report or record the arguments of counsel, but shall record all objections and the ground thereof as stated by counsel, and also the decisions or rulings of the court thereon, and exceptions taken by counsel to such decisions or rulings, and shall, immediately upon the completion of the trial, file his report in such shorthand writing in the office of the clerk of the court where such trial was had, which report shall remain on file for the use

of all parties interested." This law was amended in 1877 and it was then provided that reporters should not be appointed in any county whose board of county commissioners had not first authorized such appointment. Compensation was fixed at not exceeding \$10 per day for note-taking, and 15 cents per 100 words for transcript.

MISSISSIPPI.—The first law in reference to the employment of stenographers in courts in Mississippi was passed in 1886. The present laws will be found in Acts of Mississippi, 1886, pages 138 and 158; 1889, page 79; 1890, pages 96-104 and 254.

MISSOURI.—In 1881 a law was passed giving judges of criminal courts in cities of over 100,000 inhabitants authority to appoint a stenographer at a salary of \$1,800 per annum, who was required to report the testimony in all cases in full and to furnish transcripts, when ordered by either side, free of charge. Whenever said reporter is required to take notes before the grand jury he is sworn to secrecy. In case of temporary absence for any cause, the judge is authorized to appoint a competent shorthand writer in his place for the time being. In case of conviction of misdemeanor said shorthand reporter may be subject to a fine not to exceed \$500, or may be imprisoned in the city jail not to exceed a period of one year. The terms of the act of 1883 limit its operations to counties having more than 45,000 and less than 150,000 inhabitants, and cover the cities of St. Joseph and Carthage, in the counties of Buchanan and Jasper, respectively. This act provides for the appointment of a shorthand writer by the judges of the circuit courts. He must have had at least three years' experience in court reporting and is required to take full notes of all cases tried under the directions of the judge and to preserve the same. His compensation is fixed at \$10 per day and 15 cents per folio for transcript. The judge may, at his discretion, order a part or the whole of the evidence and proceedings of a case written out for his own benefit, and the cost of the same is taxed in the same manner as the other costs in the case. The per diem compensation is made up of a fee of \$3 taxed by the clerk of the court in every case filed, except suits for the collection of delinquent taxes, which amount is paid over to the county treasurer to apply to the salary of the stenographer. The stenographer is allowed one or more deputies when necessary. The five divisions of the circuit court of the city of St. Louis were exempt from the provisions of the foregoing acts. They were provided for by the law of 1887, which authorized a majority of the judges sitting together in general term to appoint a stenographer for each division or special term of said court, to be duly sworn and also bonded with two sureties in the sum of \$3,000. The salary is fixed at \$1,800 per year, with 15 cents a folio for transcripts. In this case also the judge is authorized to order transcript of proceedings for his own use, the cost of which is to be taxed as other costs in the case, and a tax of \$3 is created, to be applied to the salary of the stenographer, for each case filed with the clerk of the court. The

statute of 1883 included for a time the county of Jackson, in which Kansas City is situated. In 1889 that act was superseded by an entirely new law, which provides that the judges of circuit courts in counties having a population of more than 100,000 or less than 350,000 inhabitants may appoint an official stenographer for each court or each division of said court, who shall have had at least two years' actual experience in court reporting and be not less than 21 years of age, who shall be a sworn officer of the court and hold office during the term of the judge appointing him, unless removed for incompetency or misconduct. His duties and compensation are practically the same as official stenographers in other courts. In cases of appeal or writ of error he is required to furnish a duplicate copy for the higher court. This law contains the same provision for a tax of \$3 for each case filed with the clerk of the court. The act of 1887 provided for the appointment of stenographers in counties having 45,000 inhabitants or less, with a compensation of \$10 per day and 15 cents per folio for transcripts, but in 1889 the act was modified so as to reduce the compensation to \$5 per day and 10 cents a folio. Under this last act the applicant for appointment is examined by a committee of three members of the bar appointed by the judge. He is required to write 120 words per minute for five consecutive minutes from questions and answers not previously written by him and to transcribe the same with accuracy. The clerk of the court collects a tax of \$2 against every case filed, except for delinquent taxes. The shorthand writer is required to make duplicate copies of all transcripts and is allowed nothing for the additional copy which the clerk of the court uses in case of an appeal or the issuance of a writ of error for the review of a higher court. In criminal cases, where an appeal is taken or a writ of error granted, and where the defendant is unable to pay the cost of the transcript, the stenographer is paid by the State for one copy at the rate of 10 cents per folio, and is required to furnish the second copy without compensation. The duties of stenographers appointed under these laws are to attend the sessions of the courts, under the directions of the judges, and take full stenographic notes of all the oral evidence offered, together with all objections to the admissibility of testimony, the rulings of the court thereon, and all exceptions taken to such rulings, and to furnish transcript of all or any part of the evidence so taken on payment of the prescribed fees.

MONTANA.—On the 16th of February, 1877, the legislative assembly of Montana enacted a law which provided that the judges of the district courts might appoint a shorthand reporter whenever in their judgment it would expedite the public business, who should be skilled in the art and competent to discharge the duties of his office, for the purpose of recording the oral evidence of witnesses in criminal cases and in civil cases when either of the parties require it, and such other matters as the judge may direct. A compensation of \$8 per day is provided and 15 cents a folio for transcripts, which in criminal cases shall

be paid out of the county treasury and in civil cases by the party requesting the same, the amount allowed the reporter being taxed as part of the costs. This law was amended in 1877, the stenographer was made a sworn officer of the court, and a tax of \$3 was required to be paid to the clerk of the court by each party to the suit in every civil action, which amount was to be applied to the salary of the stenographer, and the prevailing party to have the sum so paid taxed in his bill of costs. A salary of \$1,200 per year was provided. At an extra session of the legislature the act was again amended and the salary increased to \$1,500 per annum, with 5 cents per folio for transcripts in civil cases. The sixteenth session of the legislative assembly, in 1889, increased the salary of all official stenographers to \$1,800 per annum.

There are at present ten judicial districts in the State, two of which have two official stenographers each, so that there are in all twelve official court reporters in Montana.

NEBRASKA.—By the law of February 9, 1875, stenographic reporters were authorized in the district courts, and were appointed by the judge whenever the parties to a suit requested it. A transcript fee of 10 cents per hundred words was provided. On March 1, 1879, the salary was made \$1,500 and the transcript fee reduced to 5 cents per folio. A law was passed in 1887 authorizing the employment of stenographers in the supreme court, for each of whom a salary of \$1,200 a year was appropriated and a like sum for a shorthand clerk to the attorney-general. The stenographers in the district courts are required to make stenographic reports of all oral proceedings had therein, including the questions and testimony of witnesses, and such other proceedings as the presiding judge may direct, except the argument to the jury. Parties to suit may, with the consent of the judge, waive the reporting of any part of the proceedings required to be recorded. Whenever during the progress of any cause any question shall arise as to the admissibility or the rejection of any evidence or other matter causing an argument to the court, the reporter shall briefly note the ground of the objection made, the ruling of the court thereon, and any exception taken by either party; he shall keep and maintain an office within the district for which he shall be appointed and shall preserve all stenographic reports made by him as official reporter, which he shall turn over to his successor upon the expiration of his term of office as the property of the State; he shall furnish on application of any party to a suit a longhand copy of the proceedings or any part thereof, for which he shall be entitled to a fee of 5 cents per hundred words, to be paid by the party requesting the same, except where such copy is ordered by the State's attorney, provided that where, after conviction, the defendant shall make affidavit that he is unable by reason of his poverty to pay for such copy the judge may direct the reporter to make such copy without fee. The reporters may appoint deputies, who shall have the same qualifications, act in their stead, and be paid by them. The practice

of law by official reporters of district courts within the districts for which they are appointed is prohibited. There are now twenty judicial districts in Nebraska, with the same number of judges and reporters.

NEVADA.—A law providing for court stenographers, similar to that of California, was passed by the legislature of Nevada in 1883.

NEW HAMPSHIRE.—The supreme court was provided in 1873 with a stenographer for civil and criminal proceedings in the trial terms of court. In 1875 this act was so amended as to apply to the law term of the court.

NEW JERSEY authorized the judge of the circuit court of Hudson County to employ a stenographic reporter and fix his compensation, by a law passed in 1868, and in 1869 a similar law for Passaic County was enacted. In 1871 the judges of the circuit courts were allowed to employ a reporter, whose duties were to attend all trials in said circuit courts and in the courts of oyer and terminer, and exactly and truly take notes and record verbatim all the evidence and proceedings, except the arguments of counsel, and, when requested, to make and furnish true reports to the judge and to each party in such cause. A compensation of \$10 per day was provided, and the reporter was allowed to charge parties requesting transcripts at a rate not to exceed 10 cents per hundred words, provided said reports were furnished within one day after request. Towards defraying the expenses of the county, under this act, a fee of \$1 was required to be paid to the clerk of the county, to be included in the tax bill of costs and be recoverable as other costs in the suit. By this law all special acts authorizing the appointment of stenographic reporters in particular counties were repealed. By the act approved March 4, 1878, a master in chancery, in certain cases of reference to him of causes pending in the court of chancery, may employ a shorthand reporter. The president judge of any orphan's court was empowered to employ a reporter in 1881, the expense to be paid by the parties appearing before him. By a law approved February 11, 1888, a vice-ordinary or vice-surrogate-general was empowered to employ a reporter for the same purposes that vice-chancellors were allowed to employ such assistants.

NEW YORK.—The law passed by the New York legislature, April 16, 1860, was the earliest State law authorizing the employment of a stenographer by a court. This was embodied in amendments to the code of procedure by David Dudley Field, and it provided that the courts of the first judicial district, embracing the city and county of New York, might direct the employment of a stenographer in such cases as appear to them to require it, and might order the expense occasioned thereby to be paid by the parties, not exceeding, however, \$5 a day to each. Stenographers were appointed under this law in the courts of record. In 1863 the stenographer was made a sworn officer of the court, with a salary of \$1,500, and was required to take full stenographic notes of all trials. In 1865 the law was further amended so as to increase the

salaries paid to stenographers in New York City to \$2,500 per annum, and to extend the system to the surrogate court of New York. In counties other than New York on trials of issues of fact, in criminal courts and courts of oyer and terminer, the presiding justice was authorized to employ a stenographer, whose duty it should be to furnish the parties to the trials with a copy of the evidence and proceedings if desired. Under the code of remedial justice revised in 1876 each stenographer is an officer of the court, must take full stenographic notes of the testimony and proceedings in each cause and preserve the notes for two years or file the same on the request of the presiding judge. Transcripts must be made when ordered by the judge or parties entitled to them. The employment of stenographers in the higher courts of the State of New York is now general and an immense amount of legislation in reference to reporters will be found in the statute books. Not only was this the first State to establish stenographers as officers of courts, but it has always been foremost in the use of the art in legal proceedings. New York is divided into eight judicial districts of the supreme court. Each county in the State has a county court presided over by a county judge, with power to appoint a stenographer, and in each county, except New York and Kings, the surrogate is authorized to appoint a stenographer, to be paid a "reasonable compensation." In New York and Kings counties the stenographers are paid fixed salaries. By the laws of 1885 there may be appointed by each county judge of the State a stenographer for the grand jury whose compensation shall not be less than \$5 nor more than \$10 per day, to be fixed by the board of supervisors. This act applies to all counties having a population of more than 75,000 inhabitants, except that of New York. Stenographers must furnish to the judges of the various courts in which they are employed copies of their minutes free of cost, but for every other copy furnished they are allowed in the supreme court 6 cents per folio and in other courts 10 cents per folio, the surrogate's court excepted.

NORTH CAROLINA.—A bill to establish a system of court reporting was before the North Carolina legislature in 1891. The measure passed the senate, but was "tabled" in the house.

NORTH DAKOTA.—Dakota authorized, in 1875, the appointment of stenographers by the judges of the district courts when such appointments would bring about a more economical administration of justice. This law was repealed in 1877, but in 1879 a new law was passed applying to all the counties of the Territory, except four, and in 1881 the excepted counties were included in its provisions. The present law provides that each court shall have a stenographer, to be appointed by and hold office at the pleasure of the judge. A per diem of \$10 is paid, and 5 cents a mile is allowed for distance necessarily traveled in going to and from his engagements. The fee for transcripts is fixed at

15 cents a folio. There are six judicial circuits in the State, and in each an official stenographer is employed.

OHIO.—In 1877 Ohio provided for the appointment of two stenographic reporters for the court of common pleas in all counties containing cities of 30,000 inhabitants or over, to hold office for a term of three years, and be *ex officio* stenographers of the district and probate courts of such counties and the superior courts of such cities sitting in general term. A per diem compensation of \$10, with 8 cents per folio for transcript, was specified by this act. The present law provides that judges of the courts of common pleas and probate courts in all counties containing cities of 30,000 inhabitants and over by the last Federal census shall appoint two stenographic reporters, skilled in their profession, to be official stenographers of such courts, but in counties containing cities of 20,000 inhabitants and over, and less than 30,000 by the last Federal census, shall appoint one stenographic reporter, and in all other counties when, in the opinion of the judge of the court of common pleas, the business requires one. In 1890 special legislation for certain counties was enacted, these special laws having generally the purpose of giving the stenographers specific yearly salaries in lieu of per diems, and creating funds by taxes of from \$3 to \$5 per day in cases reported.

OREGON.—The legislature of 1889 passed an act providing for the appointment of official reporters in the State circuit courts. Up to the present time but three judicial districts are provided with such officials.

PENNSYLVANIA.—In 1866 Pennsylvania authorized the appointment of two competent reporters for the district court of Philadelphia, at a salary of \$1,200 each, with 10 cents per hundred words for transcripts from parties ordering. In 1867 stenographers were authorized for the several courts of common pleas of the State, also for the courts in Lancaster County, which last law, however, was repealed in 1868, as was also the law of 1866. Special laws were passed from time to time, and on May 15, 1874, the first general law was approved. This law authorized the various judges of the courts of the Commonwealth to appoint at their discretion an official stenographer for their judicial districts, who was required to make full shorthand notes of all proceedings of trials and was to be paid \$10 a day and an additional fee of 50 cents per hundred words for transcribing his notes into long-hand, to be paid by the county or attorney or suitor ordering the same. In 1876 this law was amended, the transcript fee being made 15 cents per hundred words and the court being required to appoint a stenographer upon the application of two-thirds of the members of the bar. By act of June 10, 1881, the duties of the stenographer were more particularly defined. By the act approved May 24, 1887, stationery is required to be furnished by the county, all testimony must be transcribed unless relieved by the court, and the authority to appoint an official stenographer for civil courts is made compulsory, although in

the courts of oyer and terminer, general jail delivery, and quarter sessions of the peace the appointment is left to the discretion of the presiding judge. Stenographers hold office during the pleasure of the courts appointing them. During the progress of a trial it is the duty of the stenographer to transcribe such parts of the testimony as may be ordered by the court or required by the parties to the suit, and within a reasonable time after the adjournment of the court to transcribe all notes not previously transcribed, but he may be, and generally is, excused from this, except as to cases where appeals or writs of error are taken to the supreme court, in which cases he must transcribe and file the testimony and charge of the court. For this he is paid by the county. Any commissioner, master, referee, or auditor appointed by any court of the Commonwealth is authorized at the request of the parties to the suit or matter under investigation to appoint a stenographer to take down and transcribe the testimony. An official stenographer has power to appoint an assistant or assistants.

RHODE ISLAND.—A phonographic clerk was authorized in Rhode Island for the supreme court for several years before the passage of the act of 1882, which reads as follows:

The supreme court and court of common pleas may appoint a phonographic clerk who shall hold his office during their pleasure and shall be duly engaged like other clerks of said courts. Such clerks shall report the proceedings in the trial of any action, civil or criminal, whenever so directed by the court and shall receive as compensation therefor a sum not exceeding \$6 per day, to be allowed by the court and paid by the general treasurer upon the order of the State auditor, and if the services of such clerk shall be needed in different branches of the same court at the same time he may employ an assistant at the same rate of compensation. Such clerk shall also upon the order of the court transcribe his notes of such report, to be filed with the papers of the case, and for such service the court may make a reasonable allowance to be paid in the manner aforesaid. In other cases he shall make a transcript of the whole or any part of such report at the request of either party to any such action, to be paid for by such party and in case it shall become necessary to use the same in further proceedings in such action, the reasonable cost of such transcript shall be allowed by the court as part of the costs in the case.

On May 29, 1891, this law was amended to read:

The supreme court and court of common pleas may, and, upon request of counsel on either side of a cause, shall appoint shorthand clerks, who shall be residents of the respective counties in which said courts may be in session, and who shall hold their office during the pleasure of the respective courts and shall be duly engaged like other clerks of said courts, and in case there shall be no shorthand clerk resident of the county in which the respective courts may be in session capable or willing to fill the position, the said courts may appoint said clerks at their discretion from any of the other counties.

SOUTH CAROLINA.—In 1870 three circuit court judges in South Carolina were directed to appoint stenographers for their circuits who should take full stenographic notes of all proceedings, including the rulings and charge of the judge, furnishing transcripts to the judge on request and to the parties upon payment for the same at the rate of 10 cents per hundred words. In 1887 this law was repealed, except for

the first judicial district, wherein Charleston is located. The legislature on December 22, 1883, passed a law providing for the appointment of a stenographer for the second judicial district, to be paid a yearly salary of \$1,200, with 10 cents per hundred words for transcript.

SOUTH DAKOTA.—In 1875 an act was passed by the legislature of the then Territory of Dakota providing for the appointment of a stenographer for each of the districts at \$10 per day. This act was repealed in 1877, and a new law passed in 1879. This empowers the judges of the district courts to employ official stenographers who are to receive a per diem from each county where court is held, with 15 cents a folio for transcripts. All laws passed by the Territory hold good in the State until repealed.

TENNESSEE.—There are no official stenographers in Tennessee. The law permits circuit court judges to appoint a stenographer on application of either party to a suit, the party applying to pay all costs of reporting the case.

TEXAS.—The civil code of 1879 provides that for the purpose of preserving the statement of the evidence given on the trial of a cause the court may, and on application of either party shall, employ a stenographer or other competent person to take down the testimony. Reasonable compensation, not to exceed 20 cents per hundred words, shall be allowed such stenographer, to be fixed by the court and taxed in the bill of costs. This statute applies only to the district courts of the State and to civil causes tried therein. There is no statute relative to the employment of stenographers in criminal causes. On account of the lack of provision for a per diem compensation for stenographers there are no regular official reporters in Texas, stenographers being employed only when engaged by the parties to the causes.

UTAH.—The legislature of 1883-'84 provided for official reporters in certain of its courts.

VERMONT.—The act of November 13, 1869, provided that each county court might in its discretion appoint and employ a reporter to fully report the proceedings of said court or any term thereof for the use and convenience of said court and all parties having business therein. The law of 1878 empowered the presiding judge of each county court of common law or equity to employ a stenographer for cases heard in court and of such proceedings in hearings before auditors, referees, and masters in chancery as either the presiding judge or chancellor may order to be reported. Such reporter shall be responsible for the correctness of his reports and of all copies made by him or under his direction and certified to by him to be correct, and he shall within twenty days from the rising of such county court file with the clerk certified copies of the evidence and proceedings in all cases directed by the presiding judge, who is required to order such transcript in all cases founded upon indictments for murder or for any felony, the commission of which may be punished by imprisonment in

the State prison for ten years or more, on which a conviction has been had. A charge of 5 cents per folio is authorized for certified copies of evidence and proceedings ordered by parties in interest. In 1882 the legislature ordered proceedings against reporters who delay furnishing transcripts or neglect or refuse to comply with the judge's directions in regard to the performances of their duties.

WEST VIRGINIA.—In 1870 the employment of a stenographer was authorized for the first judicial circuit, and in 1881 the legislature repealed the same and provided for the reporting of the courts of the first judicial district and for the allowance of a reasonable compensation for services and expenses. In 1882 a similar law applicable to the fifth judicial circuit was passed.

WISCONSIN.—In 1867 the presiding judge of Dane County was authorized to employ a shorthand reporter and in 1868 reporters were authorized in Racine, Rock and Jefferson counties, the number of counties being increased by enactments in subsequent years. The laws were summarized in 1878 and amended in 1880. The Revised Statutes provide that every circuit court judge may in his discretion appoint one or more phonographic reporters and may remove them at pleasure, to be sworn officers of the court and to receive a compensation not exceeding \$10 per day with 5 cents per folio for verbatim transcript and 10 cents a folio when written out in narrative form. The municipal court of Milwaukee was also provided with a reporter. In 1880 judges of county courts with civil jurisdiction were allowed to employ reporters under the provisions empowering circuit judges to make such appointments.

WYOMING passed an act for the appointment of a Territorial stenographer and the preservation of evidence, and in 1879 section 5 of that act was stricken out and the compensation reduced. In 1882 the salary was still further reduced.

COURT DECISIONS AFFECTING STENOGRAPHERS.

The decisions of courts in cases relating to stenographers have not been uniform, but some idea of the character of such decisions may be obtained from the following citations and summaries:

Notes of interpreted testimony are not admissible.—54 Cal., 527.

Payment for stenographic work may be required in advance.—58 How. Pr. (N. Y.), 289; 8 Nebr., 22.

The charges for stenographer on hearing before master are not taxable as costs without consent of parties.—18 Blatchford, 507.

Notes of evidence taken by a stenographer duly appointed are not admissible as evidence in the courts of another State.—56 Md., 439, 463.

When transcripts of notes are furnished at the request of counsel, the client must be looked to for payment and not the counsel.—44 N. Y. superior, 581.

The supreme court can not act on a mere transcript of the stenographer's notes of the testimony not authenticated by the certificate of the trial judge.—43 Mich., 336.

Notes of an official stenographer are legal evidence within the State of the testimony in the case of which they purport to be a record.—43 Mich., 257; 5 Colo., 1.

Delay in filing the stenographer's transcript will not prejudice a party dependent on it in matters relating to further proceedings.—10 Nebr., 449.

Stenographer's minutes of the testimony given upon a former trial by a party who has since left the jurisdiction are admissible.—43 Mich., 257; 5 Colo., 1.

The destruction or loss of the testimony and proceedings of the trial taken by the stenographer does not of itself constitute ground for a new trial.—2 Dak., 377.

Where a copy of the shorthand report of the evidence is not signed and attested by the reporter nor authenticated in any way by the judge it can not be regarded as a bill of exceptions.—77 Ind., 537.

The appellate court has no right to consider the stenographer's notes or any fact therein when such notes are not made a part of the bill of exceptions.—N. W. Rep., Vol. 13, 889 Wis. case.

The State or county employing an official reporter is not liable for a transcript made for an attorney in the case, though it may become a part of the record for which the county is liable.—98 Pa., 570.

The notes of evidence taken by a phonographic reporter of a court are prima facie evidence only in the court below and can not be considered in the supreme court.—43 Cal., 176.

Where the minutes of the stenographer are relied upon to show what was certified to upon a former trial such minutes must be authenticated as correct.—3 Mich., 311.

Though a shorthand reporter be appointed and act in the trial of a cause, it is wholly immaterial by whom the evidence has been written out, if it be shown by a bill of exceptions purporting to contain all the evidence.—84 Ind., 287.

The testimony of the reporter based on his own notes is incompetent to prove the testimony of a witness given in a foreign language at a former trial and taken down by the reporter from the interpreter.—56 Cal., 119.

A case in chancery may properly be settled on the stenographer's notes where the trial judge was out of office before the time for settling the case expires, and the procedure would be substantially the same as in settling a bill of exceptions at law.—49 Mich., 639.

It is clear that any sworn officer of court, whether it be the reporter, clerk, or other officer, when he takes the witness stand as a witness must take the oath of a witness. The reporter reads his notes of a former trial as an attorney would read his; their authority and correctness should be attested by oath.—54 Vt., 83.

There is no rule of law which makes the stenographer the only competent witness in a case where it is sought to impeach a witness by showing that he testified differently at another trial.—65 Me., 466.

A certified copy of the testimony of a witness as taken by an official stenographer is legal evidence to prove the testimony of such witness, and is not in contravention of the State constitution.—69 Me., 400.

Stenographer's notes of testimony given on a former trial are not admissible in evidence if he has not testified to their accuracy, or if they are not in some way authenticated.—44 Mich., 438.

When the stenographer's report of the evidence is made a part of the bill of exceptions and there is a conflict between it and the facts alleged in the formal part of the bill of exceptions, the report will control.—63 Me., 437.

The services of a stenographer must be paid for by the person employing him in the absence of an agreement that this shall be borne by both parties. It can not be allowed as costs in the cause.—Phila. Reps., C. P. II, 244.

Unofficial stenographic notes of the testimony of a witness before a coroner are not evidence for the defendant on a subsequent trial for murder, though the witness were dead.—29 Pittsburg Law Journal, 225.

The minutes of a stenographer taken at a trial are not, in civil cases, official; they form no part of the record and can only be made a part of the record by authentication by the judge's signature after settlement of the bill of exceptions or case.—2 Dak., 377.

By the act of May 15, 1874, it is enacted that the stenographer's notes "shall be deemed and held to be official and the best authority in any matter of dispute." The law has reference to the notes made up under the eye and direction and with the approval of the judge.—79 Pa., 436.

When, for the purpose of contradicting a witness, one party offers extracts from the testimony of such witness at a former trial, the other party is entitled to put in so much of the remainder as is relevant, and for that purpose may call the stenographer and have him read the original minutes.—71 Me., 394.

One can not introduce the stenographic notes of testimony given on a former trial without having exhausted the best sources of information reasonably accessible to learn whether the witness himself can not be found; this was so held where the witness' wife was not questioned as to his whereabouts.—47 Mich., 10.

The stenographer's transcript of his notes of the evidence in a chancery cause where the testimony was taken in open court, which has been merely filed in the cause and a copy thereof sent up with the return without being authenticated by the circuit judge as a case settled as required by statute, will not be considered on appeal as the evidence in the cause.—33 Mich., 500.

The stenographer's minutes do not bear upon their face any such evidence of accuracy as the signing by the witness himself gives to a deposition. Where he has not personally attested them so as to make them evidence against himself he can not insist that their accuracy shall be assumed in his favor.—48 Mich., 43.

The legislature in providing for the assistance of shorthand writers did not intend that their notes should have more force than judges' minutes, and no one has ever supposed the latter to possess the inherent character of written evidence. They are allowed to be made use of in various ways and under various circumstances, but not as depositions or evidence of record.—Wharton's Evidence, sections 180 and 825.

SHORTHAND SOCIETIES.

The earliest shorthand associations organized in America had for their purpose the same objects as have brought into existence thousands of similar associations in Germany and other foreign countries—the dissemination of a knowledge of the art. These associations did much to introduce phonography in the United States and worked zealously for the writing and printing reform.

As early as 1848 the American Phonographic Society was in existence and there were local societies at New York; Brooklyn, N. Y.; Herkimer, N. Y.; Cincinnati, Ohio; Marshall, Mich.; Stillwater, N. Y.; Elizabeth, N. J.; St. Louis, Mo.; Lockport, N. Y.; New Bedford, Mass.; Stamford, Conn.; Waukesha, Wis.; Medina, N. Y.; Birmingham, Conn.; Westfield, Mass.; Dubuque, Iowa; Drummondville, S. C.; Wellsboro, Pa.; Farmersville, N. Y.; Little Fort, Ill.; Salem, Ohio; Falmouth, Mass.; Cambria, N. Y.; Southport, Wis.; Beloit, Wis.; Philadelphia, Pa.; Boston, Mass.; and Big Boone, Ky.

Another of the early associations was the American Phonographic League. When its constitution was revised February 26, 1853, it had a membership of 90. The New York State Phonetic Association was resolved September 6, 1854, into the American Writing and Printing Reform Association. The American Phonetic Association, devoted to the dissemination of phonography, phonetic longhand, and phonotypy, existed for many years.

The Standard Phonographic Reporters' Union (1866) is believed to have been the first organization of professional writers of shorthand in the United States. The Pennsylvania Phonographic Society was formed in 1871; the Stolze Stenographic Society of New York City, the Law Stenographers' Association of the City of New York, and the New York Munson Phonographic Society, in 1872.

A large number of local associations have been organized, but most of these have existed for a short period only. The objects of these local associations have not been the dissemination of a single system of shorthand, but they have generally been composed of writers of various

styles, their purposes being to advance the general interests of the profession, to establish uniform rates of compensation, and to promote sociability among the members. State associations, having much the same reasons for existence, have been established from time to time. Of these the New York State Stenographers' Association and the Iowa State Stenographers' Association were organized in 1876, while similar bodies were formed in Pennsylvania in 1877, in Nebraska in 1880, in Colorado, Ohio, and Missouri in 1882, and in Kansas in 1883.

The International Association of Shorthand Writers of the United States and Canada was organized in 1881 at Chicago, meetings being held in subsequent years in Cincinnati, Toronto, Harrisburg, and Buffalo, after which the association was disbanded.

Of associations which have been organized and disbanded within the past ten years the following are among the most noteworthy: Railroad Stenographers' Association, Chicago, Ill., organized in 1882; Association of Practical Phonographers, Philadelphia, Pa., 1882; Fargo Stenographic Association, 1883; Boston (Mass.) Stenographers' Association, 1883; Cayuga County Stenographers' Association (Auburn, N. Y.), 1889; Baltimore (Md.) Stenographers' Association, 1890; Order of Railway and Transportation Stenographers, Cincinnati, Ohio, 1890; Lynn Stenographers' Association, 1890; Cincinnati (Ohio) Stenographers' Association, 1888; Stolze Stenographic Society, Chicago; Reading (Pa.) Stenographers' Association; Scranton (Pa.) Stenographers' Association; Sioux City (Iowa) Stenographers' Association, 1891; Fort Scott (Kans.) Stenographers' Association, 1889; Galveston (Tex.) Shorthand Society, 1889; Lima (Ohio) Stenographers' Association, 1890, and Texas State Stenographers' Association, 1889; Birmingham (Ala.) Stenographers' Association, 1891; Dallas (Tex.) Shorthand Society, 1889; Munson International Phonographic Association.

The following associations have been in existence within two years, but no information has been received from them in response to inquiries and they are nearly all believed to be "defunct" at this time: Kings County Shorthand Society, Brooklyn, N. Y.; Brunswick (Ga.) Stenographers' Association; Tri-city Stenographers' Association, Davenport, Iowa; Des Moines (Iowa) Stenographers' Association; Gabelsberger Phonographic Society of Concordia College, Fort Wayne, Ind.; Houston (Tex.) Stenographers' Association; Indianapolis (Ind.) Shorthand Club; Jacksonville (Fla.) Stenographers' Association; Lawrence (Mass.) Stenographers' Association; Lockport (N. Y.) Stenographers' Association; Spencerian Stenographic Association, Milwaukee, Wis.; Omaha Stenographers' Association, Omaha, Nebr.; Commercial Stenographers' Association, Omaha, Nebr.; Oshkosh (Wis.) Stenographers' Association; Owensboro (Ky.) Stenographers' Association; Peoria (Ill.) Stenographers' Association; Plainfield (N. J.) Stenographers' Association; Gabelsberger Stenographic Society, Philadelphia, Pa.; St. Louis (Mo.) Stenographic Association; Stolze Stenographic Associ-

ation St. Louis, Mo.; Gabelsberger Phonographic Society of Concordia Seminary, St. Louis, Mo.; St. Paul Stenographers' Association; San Jose (Cal.) Stenographers' and Typewriters' Association; Utah Stenographers' Association; Wichita (Kans.) Stenographers' Association; Wilmington (N. C.) Stenographers' Association.

The following associations are now (August, 1891) in existence:*

CONNECTICUT. *Hartford*.—Hartford Stenographers' Association; organized November 5, 1889; meetings held at 271 Main street; membership, 73. Vice-president and acting president W. Farrand Felch; secretary, P. C. F. Hoffman; assistant secretary, Isabelle Thompson; treasurer, Grace M. Barnard; librarian, Minnia B. Fuller.

DISTRICT OF COLUMBIA. *Washington*.—The Stenographers' Association of Washington, D. C.; organized April 9, 1891; meetings held at 1505 Pennsylvania avenue; membership, 70. President, Dennis F. Murphy; first vice-president, B. W. Hanna; second vice-president, Fred Irland; corresponding secretary, F. O. Congdon; recording secretary, Miss M. M. Lammond; treasurer, E. J. McCristal.

* Since the collection of the data above given the associations named below have held meetings, and, so far as known, still exist (April, 1893):

ALABAMA. *Mobile*.—The Stenographers' Association of Mobile. President, F. O. Hoffman; vice-presidents, Misses Gazzam, Campbell, Lyons, Cox, and Mr. Valentine; secretary and treasurer, T. B. Gillin.

CALIFORNIA. *Los Angeles*.—Los Angeles Stenographers' Association; organized in the fall of 1892. President, F. H. Longley; vice-president, E. L. King; secretary, Mrs. Magrew; treasurer, Miss Ida Newkirk.

COLORADO. *Denver*.—Denver Stenographers' Association. President, Chas. W. Reitler; first vice-president, C. A. Grommet; second vice president, Miss Clara Irwin; secretary, Miss Minnie A. Sanford; treasurer, W. A. Butchart.

CONNECTICUT. *New Haven*.—New Haven Stenographers' Association. President, E. J. Perkins; vice-president, Miss Annie Starkweather; secretary, W. R. Hoppen; treasurer, Miss Hattie Shepard.

DISTRICT OF COLUMBIA. *Washington*.—Stenographers' Association of Washington, D. C. Secretary, Mrs. E. F. Rowley. Other officers the same as given above.

GEORGIA. *Augusta*.—Augusta Stenographic Association. President, Julian F. Reid; vice-president, Rosetta Kelly; treasurer, J. F. Davis; secretary, E. H. Ho-garth; librarian, Miss Aldsworth.

Macon.—Macon Stenographers' Association; organized May 18, 1892. President, C. E. Anderson; vice-president, H. N. Hannahan; secretary and treasurer, R. L. Varne.

ILLINOIS. *Bloomington*.—Bloomington Stenographers' Association. President, Clayton C. Herr; first vice-president, Miss Fannie S. Roberts; second vice-president, Edward Harkness; secretary, Miss Margaret E. King; librarian, Anna M. Campbell; treasurer, L. F. Fulwiler.

Bloomington.—McLean County Stenographers' Association. President, C. E. Baker; first vice-president, Frank Fisher; second vice-president, Miss Minnie Walker; secretary, Miss Mattie A. Long; treasurer, Frank Jacoby.

Chicago.—Chicago Law Stenographers' Association. President, David S. Geer; secretary, J. L. Bennett; treasurer, R. V. Moore.

Chicago.—National Association of Women Stenographers. President, Miss Elizabeth C. Merrill; first vice-president, Miss Harriet A. Shinn; second vice-president, Mrs. Mary Wilcox; corresponding secretary, Miss Martha Louise Allen.

GEORGIA. *Atlanta*.—Atlanta Stenographic Association; organized January 24, 1891; meetings held at 49½ Whitehall street; membership, 52. President, A. F. Cooledge; vice-president, A. C. Briscoe; secretary, Georgia Webster; treasurer, E. C. Crichton.

ILLINOIS. *Chicago*.—Chicago Stenographers' Association; organized May 1, 1889; rooms at 116 Dearborn street; membership, 75. President, Isaac S. Dement; first vice-president, Irwin E. Rockwell; second vice-president, Dan. Brown; secretary and treasurer, Sidney S. C. Stewart.

Joliet.—Joliet Stenographers' Association; organized February 21, 1890; meetings held at 317 Jefferson street; membership, 18. President, George Hingston; vice-president, Miss Jennie Gray; secretary and treasurer, Mrs. Loie Ditto; librarian, Miss Kate Baldwin.

INDIANA.—Indiana State Stenographers' Association; organized August 27, 1889; membership, 76. President, J. D. Strachan, Brazil; vice-president, S. P. Carboy, Valparaiso; secretary, Miss Emma Elliott,

Chicago.—The Stenographers' Club of Chicago. President, C. H. Rush; vice-president, Geo. H. Bradshaw; secretary, Miss L. E. Icely; treasurer, Miss Laura Nardin.

INDIAN TERRITORY. *Muscogee*.—Muscogee Stenographers' Association. President, Wm. Fletcher Whitaker; secretary, Wm. A. Smiley; treasurer, Alexander Sondenheimer.

INDIANA.—Indiana State Stenographers' Association. President, W. S. Garber, Indianapolis; vice-president, W. E. McDermut, Fort Wayne; secretary, Geo. B. Lockwood, Peru; treasurer, Miss Jennie T. Masson, Indianapolis; librarian, Mrs. A. D. Leach, Sullivan.

Fort Wayne.—Fort Wayne Business College Stenographers' Association. President, W. E. McDermut; vice-president, Charles Miller; secretary, Ira Sunday; treasurer, Miss Kitty McLaughlin.

IOWA.—Iowa State Stenographers' Association. President, Walter Irish, Des Moines; vice-presidents, Miss Laura Flickinger, Council Bluffs; Miss Dora M. Thomas, Des Moines; F. M. Webster, Decorah; Miss Lizzie Kehoe, Des Moines; secretary and treasurer, Miss Carrie A. Clarke, Des Moines.

KANSAS. *Hutchinson*.—Hutchinson Stenographic Association; organized March 16, 1892. President, Carr W. Taylor; vice-president, Miss Dora Vestal; secretary, Ed. F. Harsha; treasurer, Miss Grace Breazle.

LOUISIANA. *New Orleans*.—New Orleans Stenographers' Association. Honorary president, Charles Nathan; president, Arthur J. Peters; first vice-president, C. F. Porter; second vice-president, Miss Bertha Klute; third vice-president, Miss A. Morales; secretary, Miss M. L. Breeden; assistant secretary, Mrs. P. McIntyre; financial secretary, R. S. Cross; treasurer, B. T. Walshe, jr.; librarian, Mrs. H. M. McCants.

MASSACHUSETTS.—New England Shorthand Reporters' Association; organized in 1890. President, J. M. W. Yerrinton, Boston, Mass.; vice-presidents, F. G. Morris, Northampton, Mass.; R. Small, Portland, Me.; Wells H. Johnson, Concord, N. H.; John H. Mimms, St. Albans, Vt.; Edwin R. Gardner, Providence, R. I.; Frank G. Fowler, Bridgeport, Conn.; recording secretary, Frank H. Burt, Newton, Mass.; corresponding secretary, William B. Wright, Boston, Mass.; treasurer, James P. Bacon, Boston, Mass.

Boston.—Boston Shorthand Club, 32 Pemberton Square; organized October 21, 1891. President, Richard F. Sullivan; first vice-president, Ewing W. Hamlen;

Evansville; treasurer, F. W. Wood, Indianapolis; librarian, Miss Jennie T. Masson, Indianapolis.

Evansville.—Evansville Stenographers' Association; organized April 22, 1890; room in B. M. A. building; membership, 30. President, W. P. Clarke; vice-president, Miss Emma Elliott; secretary, Miss Carrie Smith; treasurer, Day Anderson; librarian, Miss Emma Rosenfeld.

Fort Wayne.—Fort Wayne Stenographers' Association; organized June 22, 1891; meetings held at Fort Wayne Business College; membership, 35. President, W. E. McDermut; vice-president, T. J. Logan; secretary, C. C. Miller; treasurer, Florence A. Miller.

IOWA.—Iowa State Stenographers' Association; organized July 16, 1889; membership, 84. President, Walter Irish, Des Moines; vice-presidents, Miss Dora M. Thomas, Des Moines; Mrs. Laura Flickenger,

second vice-president, Miss M. E. Fritz; secretary, Miss N. A. Dwyer; treasurer, H. W. Putney.

Boston.—Hub Stenographic Association, 181 Washington street.

Lynn.—Lynn Stenographers' Association; organized February 13, 1893. President, J. J. McGuffin; vice-president, Miss Mamie Green; secretary and treasurer, Miss E. M. Sillsbee.

MICHIGAN.—Michigan State Law Stenographers' Association. President, Thomas I. Daniel, Jackson; secretary, George C. Higbee, Marquette.

MISSOURI. Kansas City.—Kansas City Stenographers' Association.

MONTANA. Helena.—Helena Stenographers' Association; organized January 24, 1891. President, F. W. Mettler; vice-president, E. G. Worden; treasurer, W. I. Harrison; secretary, J. P. Stafford.

NEW HAMPSHIRE. Manchester.—Manchester Stenographers' Association; organized March 24, 1892. President, A. E. Herrick; vice-president, James P. Crowley; secretary, Miss Hattie E. Daniels; treasurer, Miss Alice M. Stuart.

NEW JERSEY. Paterson.—Paterson Stenographers' Association; organized March 17, 1892. President, Robert Armstrong; vice-president, Miss Anna H. Childs; secretary, Miss Minnie Yorks; assistant secretary, Miss E. M. Anger; treasurer, Isaac Delamater.

NEW YORK.—New York State Stenographers' Association. President, George R. Bishop, New York; vice-president, Charles F. King, Glens Falls; secretary and treasurer, William Loeb, jr., Albany; librarian, Mrs. Eliza B. Burnz, New York.

Amsterdam.—The Amsterdam Academy Shorthand Association; organized May 10, 1892. President, A. W. Lowe; vice-president, J. P. McElwain; secretary and treasurer, Miss Mabel G. Shelley; librarian, Miss A. Donlon.

Binghamton.—Association of Stenographers and Bookkeepers. President, J. F. Riley; secretary, Miss Agnes Tierney.

Brooklyn.—Brooklyn Stenographers' Association, No. 440 Franklin avenue. President, H. J. Rippel; first vice-president, S. S. Tuthill; second vice-president, George H. Speck; corresponding secretary, E. F. Treat; assistant secretary, Edmund Wright; recording secretary, Miss Ruth M. Hildreth; treasurer, E. M. Martin; financial secretary, Edward G. Baltz.

Elmira.—Elmira Stenographers' Association; organized December 5, 1891. President, J. W. Roberts; vice-president and secretary, L. D. Shoemaker.

Gloversville.—Gloversville Stenographic Circle. President, E. A. Sutliff; vice-president, M. E. Bushnell; secretary, Mr. Enerick; treasurer, L. M. Van Derzee.

New York.—German-American Stenographic Society "Gabelsberger." President, Adolph Frank; secretary, Dr. Rudolf Tombo; treasurer, C. Strunck; librarian, H. Hugo.

Council Bluffs; F. M. Webster, Decorah; W. S. Briggs, Ottumwa; secretary and treasurer, Miss Carrie A. Clarke, Des Moines; librarian, Miss Lizzie Kehoe, Des Moines.

KANSAS.—Kansas Court Reporters' Association; organized December 27, 1889; membership, 20. President, John H. Fazel, Wichita; vice-president, B. F. Martin, Alma; secretary, F. K. Raymond; assistant secretary, Mrs. Ella C. Porter, Fort Scott; treasurer, C. E. Carroll, Alma.

Topeka.—The Topeka Stenographers' Association; organized March 1, 1891; meetings held at 606 Kansas avenue; membership, 22. President, J. M. Hawkins; vice-president, H. C. Caldwell; secretary, W. S. Chaney; treasurer, E. C. Beynon; librarian, R. L. Spargur.

New York.—Harlem Stenographers' Association. President, Tony H. Frohlich; vice-president, Richard Ritter; treasurer, John Groshans; financial secretary, William Shupp; recording secretary, Henry Rentz.

New York.—Metropolitan Stenographers' Association; club house, 333 W. Twenty-third street. President, H. C. Ross; vice-presidents, W. T. Salter and G. W. P. Ramsey; secretary, H. W. Brent; treasurer, J. J. Haley; assistant treasurer, John W. Lafferty; assistant secretary, Wilfred I. Harrison; assistant librarian, W. J. Finnan.

New York.—The Stenographers' Association of the City of New York. President, W. H. Spedding; first vice-president, E. G. Ostrander; second vice-president, Miss F. V. Gross; secretary, G. Haller; treasurer, Charles Hoberg.

Port Jervis.—The Pitman-Howard Stenographers' Correspondence Association; organized 1892. President, Daniel J. Munday, Philadelphia, Pa.; secretary, George M. Laubshire, Port Jervis, N. Y.; treasurer, Richard P. Rutland, Philadelphia, Pa.

Syracuse.—Syracuse Stenographic Association. President, J. A. Dakin; first vice-president, Miss S. M. Henley; second vice-president, J. M. Reen; secretary, John Stedman; corresponding secretary, Miss Jessie E. Murray; assistant secretary, Miss Gertrude Ellison; treasurer, Raymond Clapp.

OHIO.—Ohio State Stenographers' Association. President, J. G. Pomerene, Cleveland; first vice-president, Charles J. Hall, Dayton; second vice-president, H. K. Sauder, Akron; secretary and treasurer, Mrs. S. Louise Patteson, Cleveland; librarian, Jerome B. Howard, Cincinnati.

Akron.—Akron Stenographers' Association. President, H. K. Sauder; vice-president, H. A. Miller; secretary and treasurer, Etta Todd; assistant secretary and treasurer, Emma Graham.

Cleveland.—Cleveland Stenographers' Association. President, A. R. Bailey; vice-president, Mrs. S. Louise Patteson; secretary Miss Anna M. Kosbab.

Columbus.—East Side Stenographic Circle. President, Rev. W. C. Holliday; vice-president, John Payne; secretary, Miss Nettie Ganong.

Gallion.—Gallion Stenographers' Association; organized May, 1891. Secretary, E. E. Farnum.

Oxford.—Oxford Stenographers' Association. President, Miss Alice Tucker.

Toledo.—Toledo Stenographers' Association.

PENNSYLVANIA. Philadelphia.—The New Century Stenographic Association. President, Miss Viola Richmond; secretary, Miss F. Arthur.

Cooperstown.—Cooperstown Stenographers' Association. Secretary, J. W. Beers.

Pittsburg.—Pittsburg Stenographers' Association. President, A. M. Martin; vice-president, H. M. Kuester; secretary, Fred. B. Sankey; assistant secretary, G. D. Turner; treasurer, George Womsley.

Scranton.—Scranton Stenographers' Association. President, John Taylor; first

Wellington.—Wellington Shorthand Society; organized May 1, 1891; membership, 12. President, J. R. Davis; vice-president, Imger Wilson; secretary-treasurer, C. J. Wolaver; librarian, C. Welch.

KENTUCKY. *Louisville.*—Louisville Stenographers' Association; organized June 12, 1891; meetings held temporarily at Bryant and Stratton College; membership, 15. President, A. F. Steber; first vice-president, S. G. Rosson; second vice-president, Miss Anna M. Roth; secretary, J. L. Riehm; assistant secretary, Miss Claudia C. Shank; treasurer, Miss Sarah Diefel; librarian, Leslie T. Eastin.

LOUISIANA. *New Orleans.*—The New Orleans Stenographers' Association; organized August 10, 1889; rooms at No. 21 Prytania street; membership, 80. President, John E. Huffman; honorary president,

vice-president, C. P. O'Malley; second vice-president, Miss Margery Munson; third vice-president, Miss Kate Potts; recording secretary, Miss D. A. Jones; corresponding secretary, F. W. Emerich; treasurer, F. A. Branda.

RHODE ISLAND.—Rhode Island Stenographers' Association. Secretary, Miss M. C. Almy.

SOUTH CAROLINA.—Palmetto State Stenographers' Association. President, William F. Bird, Charleston; vice-president and secretary, H. E. Gyles, Charleston; treasurer, Miss L. W. Bicaise.

TENNESSEE. *Chattanooga.*—Chattanooga Stenographers' Association; organized February, 1892. President, Harry L. Cook; first vice-president, Miss Jennie Bell; second vice-president, W. C. Stephens; treasurer, Miss Nellie Bennett; secretary, F. A. Moody.

Nashville.—Nashville Stenographers' Association, organized January 6, 1893. President, James H. Jackson; first vice-president, Miss Anna Hageman; second vice-president, S. W. Harwood; secretary, Mrs. Anna F. Hickman; treasurer, W. B. Shearon.

TEXAS. *Dallas.*—Dallas Stenographers' Association. President, F. C. Pierce; vice-president, W. R. Gumm; secretary and treasurer, Miss Nicholson; assistant secretary, Miss I. B. Rowans.

Fort Worth.—Fort Worth Stenographers' Union. Secretary *pro tem.*, Miss Pearl Eddleman.

Galveston.—Galveston Stenographers' Association. President, H. H. Harper; vice-president, C. K. Powers; secretary, C. F. White; treasurer, Mr. Abernathy; librarian, Miss K. F. Cameron.

Waco.—Waco Stenographers' Union; organized November 11, 1892. President, Mamie Warner; vice-president, John Eaton; secretary, R. A. Hanrick; treasurer, Miss Bree.

VIRGINIA. *Roanoke.*—The Stenographers' Association of Roanoke; organized March 24, 1891. President, F. Helvestine; vice-president, H. M. Hooker; secretary, C. A. Carpenter; treasurer, G. L. Hart.

WISCONSIN. *Janesville.*—Bookkeepers and Stenographers' Association. President, Arthur Harris; vice-president, Emma Sheofor; secretary, Emma Schmidley; treasurer, George W. Baird.

Milwaukee.—Milwaukee Stenographers' Association. President, H. Mitchell Wilmot; vice-president, Miss Ida Sanford; secretary, A. Langtree; assistant secretary, Miss H. Phillips; treasurer, Jno. Maxwell.

Milwaukee.—Milwaukee Stenographers' Society. President, Henry D. Goodwin; vice-presidents, C. G. Porter, Miss Fannie Moran, Raymond R. Frazier, W. S. Dropers; secretary, Miss Alice E. Stager; assistant secretary, T. N. Brown; treasurer, George H. Burnham.

West Superior.—West Superior Stenographers' Union.

Charles E. Nathan; first vice-president, Miss M. L. Breeden; second vice-president, L. L. Purvis; third vice-president, R. S. Cross; secretary, A. J. Peters; assistant secretary, Mrs. P. McIntyre; financial secretary, J. H. Eddy; treasurer, Eug. Bacarisse; librarian, Miss M. Winterhalder.

MAINE. *Portland*.—Portland Stenographers' Association; organized November 5, 1889; meetings held at Philharmonic Hall; membership, 50. President, Ruel Small; first vice president, Bates Torrey; second vice president, Miss H. A. Larrabee; secretary, Miss A. L. Sawyer; treasurer, H. C. Farr.

MASSACHUSETTS. *Boston*.—The Hall Stenographic Association; organized in December, 1890; meetings held at 657 Washington street; membership, 50. President, A. O. Hall; vice-president, H. E. Maynard; secretary and treasurer, M. C. Hall.

MICHIGAN.—Michigan State Law Stenographers' Association; organized December 26, 1890; membership, 27. President, Henry F. Walch, Grand Rapids; vice-president, George Gattrell, Marshall; secretary and treasurer, George C. Higbee, Marquette.

MINNESOTA. *St. Paul*.—Stenographers' Business Association of St. Paul; organized January 16, 1890; meetings held in court-house building; membership, 20. President, P. L. Wing; first vice-president, F. Shelberg; second vice-president, Will U. Smith; secretary, J. W. Rank; assistant secretary, Miss Maggie E. Barry.

MISSOURI. *Kansas City*.—Kansas City Stenographers' Association; organized May 10, 1890; membership, 146. President, A. P. Barnett; vice-president, M. A. Goodwin; secretary, T. W. Van Cleave; treasurer, D. A. Parsons.

St. Joseph.—St. Joseph Stenographers' Association; organized December 13, 1890; meetings held at Electric City Business College; membership, 25. President, C. O. Johnson; vice-president, D. W. Stauber; recording secretary, Nora Lee Yeager; corresponding secretary, James Christensen; treasurer, Charles A. Clark.

NEBRASKA.—The Nebraska State Stenographers' Association; organized June 2, 1888; annual meetings held at Lincoln; membership, 20. President, E. R. Mockett, Lincoln; vice-president, George Coupland, Elgin; secretary and treasurer, Jno. W. Brewster, Kearney.

NEW JERSEY. *Trenton*.—Trenton Stenographers' Association; organized June 1, 1891. President, Kendrick C. Hill; vice-president, J. William Backes; recording secretary, Mrs. William L. Keephart; corresponding secretary, Miss Stella Garrish; librarian, Mrs. Ida M. Muse.

NEW YORK.—The New York State Stenographers' Association; organized August 18, 1876; membership (active), 67. President, Thomas R. Griffith, Rochester; vice-president, Mrs. Clara E. Brockway, Brooklyn; secretary and treasurer, Mrs. Clara A. White, Elmira; librarian, Mrs. Eliza B. Burnz, New York.

Brooklyn.—The Brooklyn Stenographers' Association; organized February 17, 1890; club house, 207 Washington avenue; membership, 177. President, W. P. Charles; vice-president, Charles S. Findlay; second vice-president, Zander Snyder; secretary, H. J. Rippel; assistant secretary, Daniel A. Sammis; recording secretary, Miss J. M. Hayes; treasurer, E. M. Martin.

Brooklyn.—The Society of American Phonographers; organized in March, 1890; membership, 20. Honorary secretary, Arthur Wilmott, 1039 Fulton street, Brooklyn, N. Y.

New York.—German-American Stenographic Society "Gabelsberger;" organized October 25, 1884; meetings at 156 Second avenue; membership, 46. President, Albert Stürcke; secretary, Dr. Rudolf Tombo; treasurer, Hermann P. Klittke; librarian, Eugene H. Waul.

New York.—Harlem Stenographic Association; organized April 1, 1890; incorporated October 10, 1890; meetings held at 2370 Second avenue; membership, about 60. President, Charles A. Wilhoft; first vice-president, Frank T. Noble; second vice-president, Marguerite E. Dittmar; recording secretary, Robert A. McClellan; first corresponding secretary, Frederick Schreiber, jr.; second corresponding secretary, Ida Hoffman; treasurer, George W. Crowley; editor, Frank P. Richardson.

New York.—The International Association of Stolze Stenographers, New York; organized August 4, 1891; meetings held at 12 East Eighth street; membership, 40. President, F. O. Dettmann; first vice-president, Paul Bock; second vice-president, James Dettmann; English secretary, M. Lewy; German secretary, F. Pruppacher; treasurer, E. Tausig; librarian, C. E. Pfau.

New York.—Metropolitan Stenographers' Association; organized November 24, 1885; incorporated September 27, 1888; meetings held at 333 West Twenty-third street; membership, 500. President, H. C. Ross; first vice-president, James Feely; second vice-president, J. J. A. Cottrell; secretary, John R. Geary; treasurer, D. H. Thomas; assistant treasurer, G. Burt Myrick; librarian, B. Wood; assistant librarian, Miss G. V. Stevenson.

New York.—The Stenographers' Association of the City of New York; organized November 24, 1884; meetings held at 95 Lexington avenue; membership, about 400. President, T. M. Wall; first vice-president, J. N. Kimball; second vice-president, F. G. Effray; secretary, F. B. Porter; treasurer, Charles Hoberg; assistant treasurer, E. G. Goldfinch.

New York.—Stolze'scher Stenographenverein zu New York; organized October 21, 1874; meetings held at 26½ First street; membership, 36. President, Ernst Pingel; secretary, Eugen Daiber; cashier, August Hofman; treasurer, William Friedrich; librarian, John Wieler.

New York.—Women Stenographers and Typewriters' Union; organized April 21, 1891; meetings held temporarily at 142 East Fifty-fifth

street; membership, 16. Chairman, Therese Aub; corresponding secretary and treasurer, Henrietta H. Stoddart; recording secretary, Lucia Levy.

Rochester.—Flower City Stenographers' Association; organized April 13, 1890; meetings held at county judge's chambers, court-house; membership, 50. President, A. P. Little; first vice-president, W. R. Lansing; second vice-president, Miss E. M. Earles; secretary, Miss Annie H. Croughton; treasurer, F. M. C. Wellar.

NORTH CAROLINA. *Raleigh.*—Raleigh Shorthand Writers' Association; organized May 3, 1890; membership, 10. President, William Easdale; vice-president, Henry W. Miller; secretary and treasurer, Weldon T. Smith.

OHIO.—Ohio Stenographers' Association; organized August 14, 1883; membership at date of organization, 70. President, John Collins, Dayton; first vice-president, W. H. Pritchard, New Lisbon; second vice-president, H. K. Sauder, Akron; secretary, Mrs. S. Louise Patteson, Cleveland; librarian, Jerome B. Howard, Cincinnati.

Canton.—Canton Stenographers' Association; organized March 12, 1889; meetings held at Canton Business College; membership, 15. President, G. W. Shaver; vice-president, Miss Alice Jones; secretary, Oudie Miller; treasurer, P. Philippi.

Cleveland.—The Cleveland Stenographers' Association; organized January 1, 1889, reorganized and incorporated March 31, 1891; meetings held at 50 Euclid avenue; membership, 75. President, L. D. Wood; first vice-president, Norman S. Rose; second vice-president, Miss Ida M. Sieplein; secretary and treasurer, W. F. Krenkel; assistant secretary and treasurer, Miss Rye Latimer.

Oxford.—Oxford Stenographers' Association; organized October 14, 1890; meetings held at Oxford College for Young Ladies; membership, 12. President, Miss Lizzie Smith; vice-president, Miss Lizzie De Witt; secretary-treasurer, Miss Minnie Clark; librarian, Miss Alice Tucker.

PENNSYLVANIA. *Philadelphia.*—The New Century Stenographic Association; organized in October, 1888; meetings held at 1132 Girard street; membership, 61, of which number 20 are associate members. President, Miss Ida E. Turner; vice-president, Miss Jessie Preston; recording secretary, Miss Margaret L. Welsh; corresponding secretary, Miss Fanny Arthur; treasurer, Miss Clara Bold; librarian, Miss Viola O. Richmond.*

Philadelphia.—The Philadelphia Stenographers' Association;* organized March 22, 1889; meetings held at 1134 Girard street. President, Francis H. Hemperley; vice-president, Benjamin S. Banks; second vice-president, Miss Sue R. Wilkins; secretary, George H. Hardy; assistant secretary, Miss Agnes E. Goodwin; treasurer, Miss Jennie Mac Harg; librarian, Eugene McIlhone; chairman of executive committee, James B. Bonner.

* No longer existing.

RHODE ISLAND.—Rhode Island Stenographers' Association; organized January 21, 1885; meetings held at Butler Exchange, Providence, R. I.; membership, 43. President, T. J. Griffin; vice-president, D. McAuslan; secretary, Miss M. C. Almy; treasurer, E. L. Rich.

TENNESSEE. *Memphis*.—Memphis Stenographers' Association; organized January 26, 1891; meetings held over Baldwin's Music Hall; membership, 40. President, J. J. McNavin; vice-president, W. S. Salt; secretary, L. W. Bowker; treasurer, Miss Floy Davidson.

SHORTHAND MAGAZINES.

The following journals devoted to shorthand writing are now issued monthly (except where otherwise specified) in the United States:*

Browne's Phonographic Weekly. Conducted by D. L. Scott-Browne, New York. Publication begun in 1875. \$1 per annum.

Frank Harrison's Shorthand Magazine. Published by Frank Harrison, Boston, Mass. Publication begun in 1889. 50 cents per annum.

Munson's Phonographic News and Teacher. C. A. Walworth, publisher, 108 E. One hundred and twenty-fifth street, New York. Publication begun in 1876. \$2 per annum.

The National Stenographer. Isaac S. Dement, editor, Chicago, Ill. Publication begun in 1890. \$1 per annum.

* At the time of publication (April, 1893), the following additional journals are issued:

Barnes's Shorthand and Typewriting Magazine. Published monthly by A. J. Barnes, St. Louis, Mo. Publication revived, after an interval of suspension, in July, 1892. 50 cents per annum.

Dictation. Published monthly by Isaac S. Dement, 323 Dearborn street, Chicago, Ill. Publication begun in January, 1893. 50 cents per annum.

Frank Harrison's Shorthand Weekly. Published by Frank Harrison, Boston, Mass. Publication begun in January, 1892. \$1 per annum.

The Exponent. Edited and published monthly by J. G. Cross, Chicago, Ill. This publication was discontinued for nearly three years and revived in September, 1892. \$1.50 per annum.

Gokey's Shorthand Magazine. Edited and published quarterly by Charles F. Gokey, Paterson, N. J. Publication begun in January, 1892. 50 cents per annum.

Pacific Stenographer. Edited and published monthly by Clarence S. Merrill, San Francisco, Cal. Publication begun in January, 1893. 50 cents per annum.

The Phonographic Library. Published monthly by the Phonographic Institute Company, Cincinnati, Ohio. Publication begun in April, 1892. \$1 per annum.

The Stenographic World. Chicago, Ill. Monthly. Publication begun in August, 1892. 50 cents per annum.

The Shorthand World. Edited by R. A. Smith, Omaha, Nebr. Publication (monthly) begun in September, 1892. 50 cents per annum.

The following changes have been made:

Munson's Phonographic News and Teacher is now edited by George Shankland Walworth.

The Phonographic Magazine is now issued semimonthly by the Phonographic Institute Company at \$1 per annum.

Pernin's Monthly Stenographer. Edited by Mrs. Helen M. Pernin, Detroit, Mich. \$1 per annum.

The Phonographic Magazine. Jerome B. Howard, editor. The Phonographic Institute, Cincinnati, Ohio. Publication begun January 1, 1887. \$1.50 per annum.

The Phonographic World. Edited by E. N. Miner, 70 Broadway, New York. Publication begun in 1885. \$1 per annum.

The Ready Writer.* A. L. Thompson and C. W. Dearborn, editors. Published by the Ready Writer Company, San Francisco, Cal. Publication begun June, 1891.

The Shorthand Review. Published by the Shorthand Review Company, 42 Tribune Building, New York, and 415-417 Dearborn street, Chicago. Publication begun January, 1889. 50 cents per annum.

The Short-Hand Writer.* D. P. Lindsley, publisher, 29 Park Row, New York. Bimonthly. 75 cents per annum.

The Southern Shorthand Reporter.* Published by E. L. Craigmiles, Chattanooga, Tenn. 50 cents per annum.

The Stenographer. Edited by Francis H. Hemperley. Published by The Stenographer Publishing Company, Philadelphia, Pa. Publication begun as The Philadelphia Stenographer, May, 1890. \$1 per annum.

The Students' Journal. Devoted to Graham's Standard Phonography. Edited and published by Andrew J. Graham, 744 Broadway, New York. Publication begun in 1872. \$1 per annum.

* Defunct at the date of publication.

SHORTHAND ALPHABETS.

EXPLANATION OF THE PLATE.

In the series of alphabets appended the signs in every case possible have been carefully traced from the treatises on the several systems. In a few instances it has been necessary to depend upon the histories of Lewis and Pitman, published in 1816 and 1847, respectively. The former work makes no account of the signs for ch, sh, and th, but it is probable that these were represented in nearly all methods.

The series is not always arranged in the chronological order of the earliest work of each author, but represents the signs as modified in later and more widely known editions. Where characters are reversed or altered in the middle or end of words the second sign is given in bracket.

The diacritical marks employed in representing the phonetic systems are those used by Webster. No mark is provided by him for the brief or New England sound of o in whole, as used in the systems of Burnz and Jones. (See Webster's Unabridged Dictionary, principles of pronunciation, § 20.)

KEY TO THE PRONUNCIATION.

ā, as in ale.	ē, as in mete.	ī, as in ice.	ō, as in hope.	ū, as in use.
ă, as in at.	ě, as in met.	ĩ as in it.	ố, as in hop.	ũ, as in us.
â, as in share.			ôô, as in food.	
ä, as in alms.			ốố, as in foot.	
â, as in ask.			oi, as in oil.	
ä, as in all.			ou, as in out.	

ch, as in child; ġ, as in get; th, as in thing; tñ, as in thine; zh, as in azure.

	J.Willis.	E.Willis.	Witt.	Dix.	Mawd.	Shelton.	Metcalf.	Rich.	Shelton.	Farthing.
	1602.	1618.	1630.	1633.	1635.	1641.	1645.	1646.	1650.	1654.
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B	n			^	^		<		^	^
C		(	┐	┐	∩	┐	(	o	>	
D	┐	o	)	┐	┐	/	)	j	\	)
E	<	e	o o	e	e	e	e	o	e	∪
F	L	7	┐	L	L	┐	L	7	L	┐
G	┐	y	y	┐	┐	y	y	y	^	┐
H	o	h	<	o	q	<	o h		o	q
I	∩	z	✓	1	┐	┐	1	.	┐	L
J	>		y	1	┐		1		^	
K	┐	^	^	<	∩	^	^	^	(	
L	u	u	u	u	u	u	u	u	—	u
M	u	\	\	u	\	\	\	—	)	(
N	\	n —	—	\	(	—	—	\	/	\
O	(	o c	=	(	/	(	e	✓	u	^
P	/	p o	(	u o	y	o	p o	o	p	—
Q	o	q	q	y	∩	q	┐	q	q	┐
R	—	r	r	—	—	r	r	p	r	r
S	|	s	p	|	|	p	q |	/	q	o
T	c	┐	/	/	(	/	/	/	l.	/
U	∩		.	.	.		v	\	v	
V	v	v	v	v	v	v	v		v	v
W	)	|	q	o	o	┐	7	L	(	┐
X	∩	∩	∩	∩	∩	x	∩	^	∩	∩
Y	∩	y	y	∩	∩	y	∩	y	∩	∩
Z	z	z	z	z	z	z	z	z	z	z
Ch		ſ				>				<
Sh		h				h				h
Th		/				o				/

	Everardt.	Bridges.	Facy.	Mason.	Coles.	Hopkins.	Steel.	Mason.	Ridpath.	West.
	1658.	1659.	1672.	1672.	1674.	1674.	1678.	1682.	1687.	1690.
A	q	c	/	/	<	^	^	/	^	/
B	1	n	|	|	^	|	^	^	n	<
C	c		c	^		(	(	(	c	(
D	o	o	o	)	\	)	7	\	7	\
E	e		e	o	e	e	e	/	e	✓
F	7	L	7	7	L	7	L	7	L	f
G	u	^	r y	^	^	u	7	f	u	7
H	h		L	v	o	p	o	L	|	L
I	i	s	L	.	.	1.	1	7	/ 7	/
J				1	7	1	1	J	/ 7	J
K	^	o	^	^	(	^	<	(	(	(
L	u	u	u	u	—	u	c	u	—	u
M	\	\	\	—	o	\	u	)	u	)
N	<	—	—	—	/	—	\	—	\	—
O	o	o	o	7	u	<	(	o	e	e
P	y	7	i	p o	p	o	o	^	o	^
Q	q		q	q	u	q	q	(	q	q
R	r	v	r	r	r	r	—	r	r	r
S	p	|	so	f	o	f	|	/o	o p	/o
T	f	/	/	/	|	/	/	|	/	|
U			u	\	.	.	.	7		7
V	w		7	\	v	v	v	7	v	7
W	7	d	o	o	c	L	7	e	e	o
X	o	o	o	^	o	o	o	x	o	x
Y	j	1	y	y	o	y	u	y	o	/
Z	z		z	z	z	z	z	/	z	/
Ch	s	c	o		o				s	
Sh	o		h						o	
Th	/	o	h s						o	

	Nicholas.	Addy.	Barmby.	Mason.	Tanner.	Lane.	Weston.	Gibbs.	Macaulay.	Jeake.
	1692.	1695.	1700.	1707.	1712.	1716.	1727.	1736.	1747.	1748.
A	.	/	/	/	/	/	^	(	-1	
B				h			<	Pq	)	)
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D	)	)	)	\	/	)	o	>>	\	/
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F	L	7	7	7	7	7	L	77	/	)
G	7	4	4	r	r	4	4	77	)	)
H	o	h	h	L		h	h	77		
I	.	.	.	.	.	.	1	1	-	
J	7	4	4	J	✓	4	1	1J	-	)
K	)	)	)	C	C	)	)	) ^	)	)
L	)	)	)	)	)	)	)	) v	-	-
M	\			)	)		\	\	\	\
N	-	-	-	-	-	-	-	-	/	/
O	.	v	v	<	Γ	<	e	v	o	
P	p	g	g	)	o	g	p	g	)	)
Q	q	q	q	q(	~	q	7	g	)	)
R	r	p	p/	r	r	p	r	ra	/	-
S	g	r	r	/o	\	r	19	17	/	(
T	/	/	/	|	/	/	/	/	-	/
U	.	\	\	L	)	\	v	99	o	|
V	v	v	7	^	)	v	v		\	)
W	v	L	L	^	)	^	7	xl	/	|
X	x	)	)	x+	+ x	x	x	x	s	(
Y	y	y	y	7	y	y	x	y	)	)
Z	z	z	z	/	z	z	z	z	p	(
Ch				L					|	
Sh				/					/	
Th				'					-	

	Annet.	Tiffin.	Gurney.	Angell.	Stackhouse.	Taplin.	Swaine & Simms.	Lyle.	Alphabet of Reason	Meilan
	1750.	1750.	1753.	1758.	1760.	1760.	1761.	1762.	1763.	1764.
A	∖	ā ā (ä ä (	/	/	o	∖	/	ā ā ä ä	∖	.
B	/	|	1	∠	∖	/	∠	∖	∖	∖
C	(		(	e	(	— o	(			(
D	|	/	∖	∖	)	|	∖	)	∖	∖
E	/	ē — | ē	✓	∖	o	∖	✓	ē	✓	.
F	∠	(	∖	∖	—	/	∖	∖	∖	∖
G	∖	)	∖	∖	∖	—	∖	∖	∖	∖
H	—	∖	∖	∖	∖	∖	∖	∖	∖	∖
I	∖	ī ∨ ī —	/	.	.	∖	/	ī	∖	.
J	∖	∖	✓	J	∖	—	J	)	∖	∖
K	(	∖	(	e	(	—	(	∖	(	(
L	∖	∖	∖	∖	∖	∖	∖	∖	∖	∖
M	∖	—	)	)	)	)	)	—	∖	)
N	∖	— ng	—	—	—	∖	—	— ng	∖	—
O	o	ō ō / ö ö /	∖	o	o	∖	∖	ō ō ö ö	∖	.
P	/	∖	(	(	∖	/	(	∖	∖	(
Q	(		q	e	∖	∖	q	∖	(	q
R	)	(	r	r	/	)	r	∖	)	r
S	∖	∖	/ o	/ o	/	o	/ o	—	—	/ o
T	|	∖	|	|	|	|	|	∖	—	|
U	u	ū ~ ū	∖	∖	o	∖	∖	ū	∖	.
V	∠	∖	∧	∖	J	/	∖	/	(	∖
W	—	∖	∧	∧	✓	(	∧	(	(	(
X	)		x	x	x	∖	x		∖	x
Y	∖	∖	∖	✓	∖	∖	∖	o	∖	∖
Z	∖	∖	/	/	∖	o	/	—	—	/
Ch		∖		∖		∖	∖	∖		
Sh		∖		∖		e	∖	∖		
Th		∖		∖		∖	—	—		

Annet. Hodgson. Holdsworth. Byrom. Palmer. Graves & Williamson. Shorthand. Blanchard. Hervey.
 & Aldridge. Ashton. Dictionary.
 (1765?) 1766. (1766) 1767. 1774. 1775. 1775. 1777. 1779. 1779.

A	\	/	/	.	.	.	.	/	\	-
B	/	1	f	∩	∩f	∩	q	1	(	\
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E	-	/	/	.	.	.	.	✓	\	-
F	∫	1	1	\	\	o	q	1	/	J
G	)	f	∩	e	q e	o	q	f	/	)
H	J		f	q d	q	\	o	L	\	/
I	-	J	.	.	.	.	.		-	-
J	)	J	\	q d		o	q	✓	/	)
K	c	c	\	e	q f	c	∩	/	(	J
L	u	u	∩	q o	o p		u	u	u	u
M	(	)	)	∩	∩	∩	\	)	)	∩
N	∩	-	u	u	u	-	-	-	-	∩
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R	o	r /	c	/	/	/	n	r	(	)
S	/	/ o	-	-	-	u	/	/	o	/
T			/			/			/	
U	.	L	o	.	.	.	.	L	-	.
V	u	q	J	\	)	u	q	∩	/	(
W	u	q	o	p b	)	u	q	∩	\	∩
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Ch	/			q	e q		c			
Sh	/			e b	q		o			
Th	J			∩	q		f			

	Soare.	Mitchell	Nash.	Blanchard.	Taylor.	W.Graham.	Mavor.	Lloyd.	Rees.	Art of Writing.
	1780.	1782.	1783.	1786.	1786.	1787.	1789.	1793.	1795.	1798.
A	\o	^d	(	.o	.	.	,		/	.
B	)	<9)	/	/	9	/	(	o	/	\
C	-	(		(					)	C
D	(	)	\	]]	/	\	)	)	9	|
E	/	9	\	-1	.	.	.		/	.
F	)	L e	(	r	\	/	p	o	-	)
G	c	/y	/	\	)	/s	9	o	9	o
H	.	/h		L	9	/	/	\	-	o
I	\	1	)	/	.	o	.		/	.
J	(	1	/	)	)	s	9		/	
K	(	)	|	(	)	(	\	c	/	
L	-	(	(	(	6	-	/	-	9	c
M	)	\	)	)	9	)	)	)	6	)
N	/	-	|	)	(	(	(	-	)	-
O	o	e	)	o	.	.	.		b	.
P	)	p q	)	/	p	/	p	n	p	(
Q	c	/	.	|	)	/	e	u	/	/
R	/	r/	/	/	r/	/	r/	/	r/	/
S	-	19	o	-	-	o	-	(	(	)
T	(	/	/	-	-	+	-	/	+	/
U	o	p	(	o	.	.	.		(	.
V	)	v	-	)	\	/	9	u	(	e
W	o	72	-	o	9	9	/	u	9	u
X	/	8	/	x+	/	x	/	o	p	2
Y	\	8	/	/	/	/	.	o	y	o
Z	-	z		-	|	o	-		/	
Ch			/		c	2		(		
Sh			/		p	s		(		
Th			/		p	-				

	Richardson.	Harwin.	Hodson.	Roe.	Ewington.	Prosser.	Nicholson.	Vale.	Clive.	Sams.
	1800.	1801.	1802.	1802.	1803.	1803.	1806.	1808.	1810.	1812.
A	.	/	.	$\bar{a} \sim \ddot{a} \sim \backslash$ $\underline{a} \sim \backslash$	Q	.	1 \ /	/	.	.
B	7	6	\	/	Q	7 /	1	7	C	✓
C	.	(				(		(	-	
D	\	)	)	o	)	/	\	\	-	p
E	.	/	.	$\bar{e} \sim \ddot{e} \sim \backslash$	o	o	o	✓	.	.
F	)	6	1	p	9	\	-	7	-	✓
G	r	✓	(	o	9	)	r	r	-	7
H	.	-		\	6	n		L		\
I	.	p	.	$\bar{i} \sim \ddot{i} \sim \backslash$	e	u	.	1	.	.
J	.	✓	(		9	7	r	7	-	7
K	(	6	)	o	)	7		2	\	(
L	)	6	7	2	)	/	)	)	-	)
M	)	2	-	/	\	)	)	)	)	-
N	-	-	r	$\text{ng} \sim$	-	)	-	-	)	)
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S	/	/	/	-	/	-	)	10	-	/
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X	7	✓	7		9	+	+ x	x	x	)
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Z	.	/	/	-	/	-	)	8	-	/
Ch		-	(			(	o o			6
Sh		-	✓	zh		-	o o			6
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	Lawson.	Dangerfield.	Lewis.	Stones.	Oxley.	Floyd.	Farr.	Dodge.	Gould.	Hewett.
	1813.	1814.	1815.	1815.	1816.	1818.	1819.	1823.	1823.	1823.
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B	u	)	/	\	\	d	c	q q	q	/
C	c	—	/	(	u	u				
D	\		/		6	\	)	/	/	—
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G	r	\	r	c	a	)	(o	)	)	
H	/		r	n	p	q	r	pp	q	/
I	.	,	,	.	,	—				/
J	j	r	r	c	/	a		)	)	
K	c	\	/	)	2 d	(	\	)	)	r
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S	—	—	o	(	/		—	—	—	A
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	De Stains.	LPitman.	Towndrow.	Sproat.	KABailey.	Tear.	B.Pitman.	Graham.	Munson.
	1839.	1840.	1841.	1846.	1848.	1852.	1855.	1858.	1867.
A	ā ă ą ą ą	ā ă ă ă ă	ā ă ă ă ă	ā ă ă ă ă	ā ă ă ă ă		ā ă ă ă ă	ā ă ă ă ă	ā ă ă ă ă
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D	/		/	/	/	\			
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F	e	\	e 9	\	\	\	\	\	\
G	—	—	—	\	g) g 9	/	g—	g—	g—
H	—	[.] (	—	9	9		/	/	)
I	ī c ă .	ī ă ă ă ă	ī ă ă ă ă	ī ă ă ă ă	ī ă ă ă ă		ī ă ă ă ă	ī ă ă ă ă	ī ă ă ă ă
J	—	/	—	e 9	9	/	/	/	/
K	\	—	e 9	(	)	c	—	—	—
L	—	/	)	)	6	✓	/	/	/
M	—	)	)	)	9	)	)	)	)
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O	ō ă ă ă ă	ō ă ă ă ă	ō ă ă ă ă	ō ă ă ă ă	ō ă ă ă ă		ō ă ă ă ă	ō ă ă ă ă	ō ă ă ă ă
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V	e	\	e 9	\	7	\	\	\	\
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X	/		\	\	o	o			
Y	.	9	/	/	✓ y 1		/	/	/
Z	—	)	/	/	+		)	)o	)
Ch	/	/	✓	e 9	(	~	/	/	/
Sh	— zh —	/ zh /	/	6 9	—	/	/ zh /	/ zh /	/ zh /
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	Marsh. 1868.	Bell. 1869.	E.J.Jones. 1871.	I.Pitman. 1871.	Soovl. 1871.	Burnz. 1872.	Gabelsberger- Geiger. 1873.	Stolze- Michaelis. 1873.
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Y	⌒	/ [/]	⌒	⌒	⌒	⌒	⌒	⌒
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